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Division of Agricultural Sciences
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PACIFIC COAST CANNED FRUITS

F.O.B. Price Relationships, 1958-59

Cling Peaches

Pears

Freestone Peaches

Apricots

Fruit Cocktail

Sidney Hoos

**CALIFORNIA AGRICULTURAL EXPERIMENT STATION
GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS**

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PACIFIC COAST CANNED FRUITS
F.O.B. PRICE RELATIONSHIPS, 1958-59
CLING PEACHES, PEARS, FREESTONE PEACHES
APRICOTS, AND FRUIT COCKTAIL

by
Sidney Hoos^{1/}

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PACIFIC COAST CANNED FRUITS
 F.O.B. PRICE RELATIONSHIPS, 1928-29
 OLIVE PEACHES, PEARS, PRESERVED PEACHES,
 APRICOTS, AND FRUIT COCKTAIL

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Introduction

This summary supersedes the recently issued preliminary report on Pacific Coast canned fruit prices and shipments.^{1/} The earlier report included estimated preliminary data on canners' shipments for 1958-59 and was issued to provide the industries with the latest available information. This report includes, and is based on, final and complete data on f.o.b. prices and movements of the various fruits. Where final or complete data are not available (exports), estimates are provided and used in this report. The results and data presented here are issued to provide the industry and governmental and private marketing organizations with materials used in the discussion and formulation of marketing policies, plans, and programs.

The report first presents summary highlights on the industry average f.o.b. price experience and on the f.o.b. shipments by canners during 1958-59. Then are summarized economic-statistical relationships of the average f.o.b. prices to major market influences for canned cling peaches, pears, freestone peaches, and apricots. Sources of the data and their characteristics are noted before the industry statistics are given in tables which incorporate the basic data and the results of the f.o.b. price analyses.

^{1/} Hoos, Sidney, Preliminary Report--Pacific Coast Canned Fruits, F.O.B. Price Relationships, 1958-59 (Berkeley: University of California, Division of Agricultural Sciences, Agricultural Experiment Station, May 22, 1959), 38p. (Giannini Foundation Mimeographed Report.) Processed.

Introduction

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The report first presents summary highlights on the industry average f.o.b. price experience and on the f.o.b. shipments by cannery during 1958-59. Then are summarized economic-statistical relationships of the average f.o.b. prices to major market influences for canned citrus peaches, pears, kiwifruit peaches, and apricots. Sources of the data and their characteristics are noted before the industry statistics are given in tables which incorporate the basic data and the results of the f.o.b. price analyses.

I. Hoos, Sidney, Preliminary Report--Pacific Coast Canned Fruit, F.O.B. Price Relationships, 1958-59 (Berkeley: University of California, Division of Agricultural Sciences, Agricultural Experiment Station, May 22, 1959), 38p. (Orland Foundation Monograph Report.) Processed.

F.O.B. Prices and Movement, 1958-59

The f.o.b. prices which reflect the average industry experience during the 1958-59 marketing year are summarized as follows:

Canned fruit	1958-59 average f.o.b. prices	
	dollars per case; 24 No. 2½	
California cling peaches (choice, No. 2½)	5.36	
California apricots (choice, No. 2½)	6.75	
Pacific Coast pears (choice, No. 2½)	6.88	
Pacific Coast Elberta freestone peaches (fancy, No. 2½)	6.16	
California fruit cocktail (choice, No. 2½)	6.83	
Hawaiian pineapple (fancy, sliced, No. 2½, f.o.b. San Francisco)	7.65	

The estimated movement of canned fruit from canners during 1958-59 is given in detail in the appended tables. But the following table presents the indicated summary results:

Canned fruit	1958-59 movement from canners	
	Total	Domestic commercial
	thousands of cases; 24 No. 2½ basis	
California cling peaches	16,988	13,922
California apricots	2,205	1,945
Pacific Coast pears	7,750	7,063
Pacific Coast freestone peaches	5,560	5,150
California fruit cocktail	10,649	9,061

Also, it is estimated that some 13,400,000 cases (24 No. 2½ basis) of pineapple moved into trade channels through packers' and importers' shipments for domestic civilian consumption.

F.O.B. Prices and Movements, 1958-59

The f.o.b. prices which reflect the average industry experience during the 1958-59 marketing year are summarized as follows:

Canned Fruit	
1958-59 average f.o.b. prices	California case No. 2 1/2
2.36	California cling peaches (choice, No. 2 1/2)
6.75	California apricots (choice, No. 2 1/2)
6.88	Pacific Coast pears (choice, No. 2 1/2)
6.16	Pacific Coast Alberta freestone peaches (fancy, No. 2 1/2)
6.83	California fruit cocktail (choice, No. 2 1/2)
17.65	Hawaiian pineapple (fancy, sliced, No. 2 1/2, f.o.b. San Francisco)

The estimated movement of canned fruit from canners during 1958-59 is given in detail in the appended tables. But the following table presents the indicated summary results:

Canned fruit	1958-59 movement from canners	
	Total domestic commodity	Thousands of cases; 2 1/2 pails
California cling peaches	16,988	13,922
California apricots	2,202	1,215
Pacific Coast pears	7,120	7,053
Pacific Coast freestone peaches	2,500	2,120
California fruit cocktail	10,649	9,051

Also, it is estimated that some 13,400,000 cases (2 1/2 pails) of pineapple moved into trade channels through packers' and exporters' shipments for domestic civilian consumption.

F.O.B. Price Relationships

In addition to providing the basic marketing information summarized above and in the attached tables, this report presents the results of statistical analyses of the major factors which are related to the industry average f.o.b. prices of canned cling peaches, pears, apricots, and freestone peaches. The major price-affecting factors include the domestic commercial movement from canneries, the level of national disposable personal income, and the relative level of prices of canned fruits competing with the respective canned fruits. Those price-influencing factors are shown in tables appended to this report. The f.o.b. price relationships may be summarized as follows:

Canned Cling Peaches

A change of 10 per cent in the commercial domestic movement (24 No. 2½ basis) of California canned cling peaches, considered by itself, was on the average accompanied by a change in the opposite direction of about 3 per cent in the f.o.b. price (choice, No. 2½) of canned cling peaches.

An increase of 10 per cent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 12 per cent in the f.o.b. price (choice, No. 2½) of canned cling peaches.

A change of 10 per cent in the adjusted index of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 11 per cent in the f.o.b. price (choice, No. 2½) of canned cling peaches.

Differences between the actual f.o.b. prices of canned cling peaches (choice, No. 2½) and those accounted for by the statistical analysis are given in Table 5 of this report.

In addition to providing the basic marketing information summarized above and in the attached tables, this report presents the results of statistical analysis of the major factors which are related to the industry average F.O.B. prices of certain kinds of apples, pears, apricots, and tree-fruit peaches. The major price-influencing factors include the domestic commercial movement from countries, the level of national disposable personal income, and the relative level of prices of certain foreign countries with the respective named fruits. Those price-influencing factors are shown in tables appended to this report. The F.O.B. price relationships may be summarized as follows:

Domestic Fruit Peaches

A change of 10 per cent in the commercial domestic movement (the basis of California export of fruit peaches, considered by itself, was of the average accompanied by a change in the opposite direction of about 3 per cent in the F.O.B. price (choice, No. 2) of certain kinds of peaches. An increase of 10 per cent in the index of disposable income, accompanied by itself, was on the average accompanied by an increase of about 12 per cent in the F.O.B. price (choice, No. 2) of certain kinds of peaches. A change of 10 per cent in the adjusted index of prices of competing kinds of fruit, considered by itself, was on the average accompanied by a change in the same direction of about 12 per cent in the F.O.B. price. Differences between the actual F.O.B. prices of certain kinds of peaches (choice No. 2) and those accounted for by the statistical analysis are given in Table 2 of this report.

Canned Pears

A change of 1,000,000 cases in the commercial domestic movement (24 No. $2\frac{1}{2}$ basis) of Pacific Coast canned pears, considered by itself, was on the average accompanied by a change in the opposite direction of about 67 cents a case in the f.o.b. price (choice, No. $2\frac{1}{2}$) of Pacific Coast canned pears.

An increase of 10 per cent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 50 cents a case in the f.o.b. price (choice, No. $2\frac{1}{2}$) of Pacific Coast canned pears.

A change of 10 points in the adjusted index of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 17 cents a case in the f.o.b. price (choice, No. $2\frac{1}{2}$) of Pacific Coast canned pears.

Differences between the actual f.o.b. prices of Pacific Coast canned pears (choice, No. $2\frac{1}{2}$) and those explained by the statistical analysis are given in Table 9 of this report.

Canned Apricots

A change of 1,000,000 cases in the commercial domestic movement (24 No. $2\frac{1}{2}$ basis) of California canned apricots, considered by itself, was on the average accompanied by a change in the opposite direction of about 55 cents a case in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned apricots.

An increase of 10 per cent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 28 cents a case in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned apricots.

A change of 1,000,000 cases in the commercial domestic movement
(No. 25) of Pacific Coast canned beans, considered by itself,
was on the average accompanied by a change in the opposite direction
of about 67 cents a case in the f.o.b. price (choice, No. 25) of
Pacific Coast canned beans.

An increase of 10 per cent in the index of disposable income,
considered by itself, was on the average accompanied by an increase
of about 50 cents a case in the f.o.b. price (choice, No. 25) of

A change of 10 points in the adjusted index of prices of consumer
and canned fruits, considered by itself, was on the average accompa-
nied by a change in the same direction of about 17 cents a case in
the f.o.b. price (choice, No. 25) of Pacific Coast canned beans.

(choice, No. 25) and these explained by the statistical analysis are given in
Table 2 of this report.

A change of 1,000,000 cases in the commercial domestic movement
(No. 25) of California canned apricots, considered by itself,
was on the average accompanied by a change in the opposite direction
of about 72 cents a case in the f.o.b. price (choice, No. 25) of
apricots.

An increase of 10 per cent in the index of disposable income, con-
sidered by itself, was on the average accompanied by an increase of
about 58 cents a case in the f.o.b. price (choice, No. 25) of canned

A change of 10 points in the adjusted index of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 13 cents a case in the f.o.b. price (choice, No. 2 $\frac{1}{2}$) of canned apricots.

Differences between the actual f.o.b. prices of canned apricots (choice, No. 2 $\frac{1}{2}$) and those explained by the statistical analysis are given in Table 13 of this report.

Canned Freestone Peaches

A change of 500,000 cases in the commercial domestic movement (24 No. 2 $\frac{1}{2}$ basis) of Pacific Coast canned freestone peaches, considered by itself, was on the average accompanied by a change in the opposite direction of about 40 cents a case in the f.o.b. price (fancy, No. 2 $\frac{1}{2}$) of Pacific Coast canned freestone peaches.

An increase of 10 per cent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 50 cents a case in the f.o.b. price (fancy, No. 2 $\frac{1}{2}$) of Pacific Coast canned freestone peaches.

A change of 10 points in the adjusted index of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 22 cents a case in the f.o.b. price (fancy, No. 2 $\frac{1}{2}$) of Pacific Coast canned freestone peaches.

Differences between the actual f.o.b. prices of Pacific Coast canned freestone peaches (fancy, No. 2 $\frac{1}{2}$) and those accounted for by the statistical analysis are given in Table 17 of this report.

Data

Although the sources of the data on which this report is based are indicated in the footnotes of the various tables, the following supplementary

A change of 10 points in the adjusted index of prices of commodities, considered by itself, was on the average accompanied by a change in the same direction of about 13 cents in the f.o.b. price (index, No. 25) of canned apples. Differences between the actual f.o.b. prices of canned apples and those explained by the statistical analysis are given in Table 13 of this report.

A change of 20,000 cases in the commercial domestic movement (No. 26) of Pacific Coast canned fruit and vegetable products, considered by itself, was on the average accompanied by a change in the positive direction of about 1 cent in the f.o.b. price (index, No. 26) of Pacific Coast canned fruit and vegetable products.

An increase of 10 per cent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 7 cents in the f.o.b. price (index, No. 27) of Pacific Coast canned fruit and vegetable products.

A change of 10 points in the adjusted index of prices of commodities, considered by itself, was on the average accompanied by a change in the same direction of about 22 cents in the f.o.b. price (index, No. 28) of Pacific Coast canned fruit and vegetable products.

Differences between the actual f.o.b. prices of Pacific Coast canned fruit and vegetable products and those accounted for by the statistical analysis are given in Table 14 of this report.

Attaching to this report of the data on which this report is based and which are given in the footnotes of the various tables, the following supplementary

explanations may be noted for the 1958-59 prices, movement data, and other economic information used in the analyses.

The f.o.b. prices of cling peaches, pears, freestone peaches, fruit cocktail, and apricots are industry average prices reflecting cannery operations. The f.o.b. prices for canned pears and freestone peaches reflect operations of canneries in the Pacific Northwest as well as in California. The canned pear and freestone peach prices for the Northwest were collected through the Northwest Canners and Freezers Association and for California were collected through the Canners League of California. The basic price data for canned apricots were also collected through the Canners League of California. The basic price data for cling peaches and fruit cocktail were collected through the Cling Peach Advisory Board. The price data for Hawaiian pineapple are based on published quotations supplemented by trade information.

The data on canner stocks and movement are based on reports issued by the following agencies: for cling peaches and fruit cocktail, the Cling Peach Advisory Board; for apricots, California canned pears, and California canned freestone peaches, the Canners League of California; and for Northwest canned pears and freestone peaches, the Northwest Canners and Freezers Association. The movement data for canned pineapple were derived from trade sources.

The index of United States disposable personal income is based on reports issued by the U. S. Department of Commerce. The levels of competing canned fruit prices for each of the fruits are measured by indexes constructed as indicated in Tables 6, 10, 14, and 18 appended to this report. Exports are based on U. S. Department of Commerce reports, and United States government purchases are based on releases issued by the U. S. Departments of Agriculture and Defense.

Information was obtained for the 1950-52 period, movement data, and other economic information used in the analyses.

The 1950-52 period of data includes, among other things, the 1950-52 period of data and information used in the analyses. The 1950-52 period of data includes, among other things, the 1950-52 period of data and information used in the analyses.

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Appendix A

The data on output and movement are based on reports filed by the following agencies: for fruit and fruit products, the Fruit and Fruit Products Board; for exports, California Raisin Board, and California Raisin Board; for imports, the Raisin Board of California; and for Northwest output, the Raisin Board of California and Raisin Board of California. The data on output and movement are based on reports filed by the following agencies: for fruit and fruit products, the Fruit and Fruit Products Board; for exports, California Raisin Board, and California Raisin Board; for imports, the Raisin Board of California; and for Northwest output, the Raisin Board of California and Raisin Board of California.

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The data on output and movement are based on reports filed by the following agencies: for fruit and fruit products, the Fruit and Fruit Products Board; for exports, California Raisin Board, and California Raisin Board; for imports, the Raisin Board of California; and for Northwest output, the Raisin Board of California and Raisin Board of California.

TABLE 1

7.

F.O.B. Prices^{a/} of Canned Fruits from 1924-25

Marketing year, June through May	California cling peaches (choice, No. 2 $\frac{1}{2}$)	California apricots (choice, No. 2 $\frac{1}{2}$)	Pacific Coast pears (choice, No. 2 $\frac{1}{2}$)	Pacific Coast ^{b/} freestone peaches (fancy, No. 2 $\frac{1}{2}$)	California fruit cocktail (choice, No. 2 $\frac{1}{2}$)	Hawaiian pineapple (sliced, fancy, No. 2 $\frac{1}{2}$) f.o.b. San Francisco
	1	2	3	4	5	6
	dollars per case					
1924-25	4.72	4.60	5.85			5.20
1925-26	4.23	4.40	5.90			4.30
1926-27	4.10	4.55	4.70			4.70
1927-28	3.45	4.65	5.00			4.20
1928-29	3.50	4.35	4.50			4.40
1929-30	4.57	4.65	5.25			4.70
1930-31	3.20	4.00	3.90			4.00
1931-32	2.80	3.25	3.10			3.00
1932-33	2.15	2.75	2.75			3.10
1933-34	2.49	3.00	2.90			3.60
1934-35	2.88	4.15	3.35	4.00		3.60
1935-36	2.66	3.25	3.20	3.80		3.60
1936-37	2.79	3.10	3.20	3.80	3.90	3.60
1937-38	3.11	3.30	3.35	3.80	4.00	3.80
1938-39	2.44	2.75	3.05	3.70	3.40	3.40
1939-40	2.56	3.40	3.60	3.60	3.75	3.60
1940-41	2.43	3.80	3.35	3.60	3.35	3.60
(War years)						
1947-48	4.78	6.00	7.10	6.50	6.90	6.10
1948-49	5.10	5.25	8.10	7.00	6.65	6.80
1949-50	4.07	5.00	5.30	5.90	5.70	6.40
1950-51	5.17	5.75	7.80	7.50	6.65	6.80
1951-52	5.53	5.94	7.86	7.50	6.68	6.80
1952-53	5.32	5.68	6.49	7.00	6.41	6.85
1953-54	5.12	5.25	6.91	6.70	6.67	6.85
1954-55	5.17	5.66	6.92	6.45	6.57	6.90
1955-56	5.70	5.10	6.72	6.78	6.56	7.35
1956-57	5.35	5.60	6.89	6.29	6.22	7.40
1957-58	5.10	5.48	6.25	6.10	6.28	7.45
1958-59	5.36	6.75	6.88	6.16	6.83	7.64

a/ Based on weighted average canners' f.o.b. sales prices (for cling peaches, apricots, pears, freestone peaches, and fruit cocktail) determined from canners' reports on their billings and invoices of sales f.o.b. cannery or dock (including brokerage, cash discount, and swell, label, and case allowances but excluding any special or trade discounts and any prepaid charges included in delivery prices such as freight and marine insurance). Prices adjusted to an industrywide common or nondifferentiated basis by modification for recognized price premiums conventional for certain brands.

b/ The freestone f.o.b. prices for 1954-55 through 1958-59 are for Pacific Coast; for earlier years, the f.o.b. prices are for California.

Sources:

Cols. 1-5: Based on data compiled through the Cling Peach Advisory Board, Canners League of California, and Northwest Canners and Freezers Association.

Col. 6: Based on quotations supplemented by trade information.

1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
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The following table shows the number of students enrolled in the various departments of the University of Chicago from 1901 to 1950. The total number of students enrolled in the University of Chicago in 1901 was 1,200 and in 1950 it was 12,000. The number of students enrolled in the various departments of the University of Chicago in 1901 was as follows:

Department	1901	1910	1920	1930	1940	1950
Total	1,200	2,000	3,500	5,500	8,500	12,000
Engineering	100	150	200	250	300	350
Architecture	50	75	100	125	150	175
Law	100	150	200	250	300	350
Business Administration	50	75	100	125	150	175
Education	50	75	100	125	150	175
Political Science	50	75	100	125	150	175
Social Science	50	75	100	125	150	175
Humanities	1,000	1,500	2,500	4,000	6,500	10,000

The number of students enrolled in the various departments of the University of Chicago in 1950 was as follows:

Department	1950
Engineering	350
Architecture	175
Law	350
Business Administration	175
Education	175
Political Science	175
Social Science	175
Humanities	10,000

Canners' Commercial Domestic Movement of Canned Fruits from 1924-25

Marketing year, June through May	California cling peaches	California apricots	Pacific Coast pears	Pacific Coast freestone peaches	California fruit cocktail	Pineapple
	1	2	3	4	5	6
	thousands of cases; 24 No. 2 $\frac{1}{2}$ basis					
1924-25	4,607	1,235	1,014			5,183
1925-26	7,484	1,755	1,293			6,265
1926-27	8,599	2,038	1,957			6,713
1927-28	10,867	1,779	1,637			7,131
1928-29	10,490	2,195	2,170			5,990
1929-30	7,483	2,259	2,383			7,173
1930-31	9,257	2,183	2,617			8,960
1931-32	5,976	1,541	1,990			6,351
1932-33	8,148	1,521	2,200			6,960
1933-34	7,415	2,034	2,767			7,442
1934-35	7,685	1,477	2,984	325		6,705
1935-36	8,452	1,951	2,670	282		8,582
1936-37	9,358	2,992	3,997	631	2,178	9,989
1937-38	6,854	2,901	2,681	832	2,271	8,529
1938-39	10,127	2,562	3,114	716	2,951	8,292
1939-40	8,673	2,640	2,768	1,206	3,091	10,796
1940-41	11,433	2,012	4,150	1,640	4,514	10,573
(War years)						
1947-48	13,843	2,415	4,866	2,155	8,836	10,112
1948-49	12,382	3,528	3,660	2,322	6,791	11,684
1949-50	15,615	3,072	5,613	2,178	6,977	11,920
1950-51	14,287	3,565	4,815	2,135	7,364	13,032
1951-52	13,648	3,410	4,348	2,507	5,604	9,685
1952-53	14,351	3,148	5,700	3,075	7,452	11,695
1953-54	14,706	3,934	5,401	3,156	6,945	12,050
1954-55	14,086	3,177	6,272	3,841	8,037	12,743
1955-56	15,023	4,494	6,763	3,859	8,145	13,198
1956-57	15,008	3,852	6,789	4,688	8,844	12,101
1957-58	16,925	3,871	7,746	4,753	8,683	12,457
1958-59 ^a	13,922	1,945	7,063	5,150	9,061	13,400

^a/ Preliminary; subject to revision.

Sources:

Col. 1: Table 3, column 10.

Col. 2: Table 11, column 8.

Col. 3: Table 7, column 8.

Col. 4: Table 15, column 9.

Col. 5: Table 19, column 9.

Col. 6: Based on data compiled by Pineapple Growers Association of Hawaii and U. S. Department of Commerce, supplemented by data and information from trade sources.

U.S. Department of Commerce, supplemented by data and information from the U.S. Bureau of Economic Analysis of Trade and Commerce.

- Col. 1: Table 1, column 1.
- Col. 2: Table 1, column 2.
- Col. 3: Table 1, column 3.
- Col. 4: Table 1, column 4.
- Col. 5: Table 1, column 5.

Figures in parentheses are preliminary and subject to revision.

Year	1949	1950	1951	1952	1953	1954	1955
Imports	1,200	1,300	1,400	1,500	1,600	1,700	1,800
Exports	1,100	1,200	1,300	1,400	1,500	1,600	1,700
Balance of Trade	100	100	100	100	100	100	100
Trade in Goods	1,000	1,100	1,200	1,300	1,400	1,500	1,600
Trade in Services	200	200	200	200	200	200	200
Trade in Income	100	100	100	100	100	100	100
Trade in Transfers	100	100	100	100	100	100	100

TABLE 3

California Canned Cling Peaches, Cannery Pack, Carry-Over, Shipments, and Exports from 1924-25

Marketing year, June through May	Cannery Pack	Cannery stocks on hand at beginning of year	Total supply	Cannery stocks on hand at end of year	Total f.o.b. movement from cannery hands	United States government direct f.o.b. purchases			United States exports	F.o.b. commercial domestic movement
						School lunch program	Quarter-master	Total		
	1	2	3	4	5	6	7	8	9	10
thousands of cases; 24 No. 2½ basis										
1924-25	5,206	1,391	6,597	709	5,888				1,281	4,607
1925-26	9,080	709	9,789	449	9,340				1,856	7,484
1926-27	13,561	449	14,010	3,730	10,280				1,681	8,599
1927-28	10,499	3,730	14,229	1,322	12,907				2,040	10,867
1928-29	14,439	1,322	15,761	3,109	12,652				2,162	10,490
1929-30	7,724	3,109	10,833	1,629	9,204				1,721	7,483
1930-31	13,174	1,629	14,803	3,922	10,881				1,624	9,257
1931-32	8,349	3,922	12,271	4,826	7,445				1,469	5,976
1932-33	6,414	4,826	11,240	1,359	9,881				1,733	8,148
1933-34	10,214	1,359	11,603	2,389	9,214				1,799	7,415
1934-35	8,258	2,389	10,647	1,836	8,811				1,126	7,685
1935-36	10,850	1,836	12,686	1,929	10,757				2,305	8,452
1936-37	10,236	1,929	12,165	1,498	10,667				1,309	9,358
1937-38	12,205	1,498	13,703	5,578	8,125				1,271	6,854
1938-39	9,446	5,578	15,024	2,737	12,287				2,160	10,127
1939-40	10,579	2,737	13,316	2,690	10,626				1,953	8,673
1940-41	9,608	2,690	12,299	779	11,520				87	11,433
(War Years)										
1947-48	15,309	456	15,765	1,247	14,518				675	13,843
1948-49	14,650	1,247	15,897	3,061	12,836				454	12,382
1949-50	16,525	3,061	19,586	2,058	17,528	1,196	234	1,430	483	15,615
1950-51	14,417	2,058	16,475	531	15,944		1,173	1,173	484	14,287
1951-52	19,145	531	19,676	3,418	16,258	446	1,734	2,180	430	13,648
1952-53	14,964	3,418	18,382	2,328	16,054	206	983	1,189	514	14,351
1953-54	17,163	2,328	19,490	2,708	15,782	763	510	1,273	803	14,706
1954-55	13,818	2,708	16,526	558	15,968	843	69	912	970	14,086
1955-56	17,923	558	18,481	1,556	16,925	a/	495	495	1,407	15,023
1956-57	21,322	1,557	22,879	4,579	18,300	599	372	971	2,321	15,008
1957-58	18,484	4,579	23,063	2,482	20,581	567	468	1,035	2,621	16,925
1958-59	17,545	2,482	20,027	3,039	16,988	591	225	816	2,250	13,922

(Continued on next page.)

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Table 3 continued.

a/ No centralized f.o.b. purchases of clings by School Lunch were reported for 1955-56, although School Lunch issued clings presumably acquired at local points.

b/ Preliminary; subject to revision.

Sources: Cling Peach Advisory Board, Cannery League of California, and U. S. Departments of Agriculture, Commerce, and Defense.

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TABLE 4

F.O.B. Prices of Canned Cling Peaches and
Related Economic Variables from 1924-25

Marketing year, June through May	F.o.b. price of canned cling peaches (choice, No. 2 $\frac{1}{2}$)	F.o.b. commercial domestic movement of California cling peaches (2 $\frac{1}{2}$ No. 2 $\frac{1}{2}$ basis)	Index of United States dispos- able personal income	Index of com- peting canned fruit prices
	1	2	3	4
	dollars per case	millions of cases	1947-48 to 1949-50 = 100	
1924-25	4.72	4.607	37.5	216.8
1925-26	4.23	7.484	40.4	176.1
1926-27	4.10	8.599	40.7	179.9
1927-28	3.45	10.867	40.7	169.4
1928-29	3.50	10.490	43.3	159.6
1929-30	4.57	7.483	42.7	176.2
1930-31	3.20	9.257	36.8	169.5
1931-32	2.80	5.976	29.6	162.0
1932-33	2.15	8.148	23.6	197.8
1933-34	2.49	7.415	26.3	199.1
1934-35	2.88	7.685	28.8	196.8
1935-36	2.66	8.452	32.9	165.5
1936-37	2.79	9.358	37.0	147.5
1937-38	3.11	6.854	36.0	159.8
1938-39	2.44	10.127	35.8	142.5
1939-40	2.56	8.673	38.5	146.4
1940-41	2.43	11.433	43.8	126.0
(War years)				
1947-48	4.78	13.843	94.8	108.1
1948-49	5.10	12.382	101.9	103.9
1949-50	4.07	15.615	103.3	88.7
1950-51	5.17	14.287	115.7	92.7
1951-52	5.53	13.648	123.2	87.9
1952-53	5.32	14.351	131.0	78.6
1953-54	5.12	14.706	134.6	76.9
1954-55	5.17	14.086	139.5	74.8
1955-56	5.70	15.023	149.9	70.2
1956-57	5.35	15.008	158.2	66.2
1957-58	5.10	16.925	162.9	63.1
1958-59 ^{a/}	5.36	13.922	169.3	65.1

^{a/} Preliminary; subject to revision.

Sources:

Col. 1: Table 1, column 1.

Col. 2: Table 3, column 10.

Col. 3: Table 6, column 4.

Col. 4: Table 6, column 5.

U.S. Bureau of Economic Analysis
 Federal Reserve Bank of Cleveland

Year	Index of Consumer Prices (1952=100)	Index of Wholesale Prices (1952=100)	Index of Retail Prices (1952=100)	Index of Services Prices (1952=100)
1929-30	100.0	100.0	100.0	100.0
1930-31	100.0	100.0	100.0	100.0
1931-32	100.0	100.0	100.0	100.0
1932-33	100.0	100.0	100.0	100.0
1933-34	100.0	100.0	100.0	100.0
1934-35	100.0	100.0	100.0	100.0
1935-36	100.0	100.0	100.0	100.0
1936-37	100.0	100.0	100.0	100.0
1937-38	100.0	100.0	100.0	100.0
1938-39	100.0	100.0	100.0	100.0
1939-40	100.0	100.0	100.0	100.0
1940-41	100.0	100.0	100.0	100.0
1941-42	100.0	100.0	100.0	100.0
1942-43	100.0	100.0	100.0	100.0
1943-44	100.0	100.0	100.0	100.0
1944-45	100.0	100.0	100.0	100.0
1945-46	100.0	100.0	100.0	100.0
1946-47	100.0	100.0	100.0	100.0
1947-48	100.0	100.0	100.0	100.0
1948-49	100.0	100.0	100.0	100.0
1949-50	100.0	100.0	100.0	100.0
1950-51	100.0	100.0	100.0	100.0
1951-52	100.0	100.0	100.0	100.0
1952-53	100.0	100.0	100.0	100.0

U.S. Bureau of Economic Analysis
 Federal Reserve Bank of Cleveland
 1952

TABLE 5

Actual and Estimated F.O.B. Prices of California Canned Cling Peaches
Choice, No. 2½, from 1924-25

Marketing year, June through May	California cling peaches (choice, No. 2½)		Difference: column 1 minus column 2	Percentage difference: column 3 as per cent of column 1
	Actual f.o.b. price	Estimated f.o.b. price		
	1	2	3	4
	dollars per case			per cent
1924-25	4.72	5.19	-.47	- 9.9
1925-26	4.23	3.86	.37	8.7
1926-27	4.10	3.82	.28	6.9
1927-28	3.45	3.32	.13	3.7
1928-29	3.50	3.38	.12	3.5
1929-30	4.57	4.12	.45	9.8
1930-31	3.20	3.10	.10	3.1
1931-32	2.80	2.61	.19	6.7
1932-33	2.15	2.27	-.12	- 5.5
1933-34	2.49	2.68	-.19	- 7.5
1934-35	2.88	2.91	-.03	- 0.9
1935-36	2.66	2.72	-.06	- 2.3
1936-37	2.79	2.66	.13	4.6
1937-38	3.11	3.11	0	0.1
1938-39	2.44	2.40	.04	1.6
1939-40	2.56	2.83	-.27	-10.7
1940-41	2.43	2.56	-.13	- 5.4
(War years)				
1947-48	4.78	5.06	-.28	- 5.8
1948-49	5.10	5.44	-.34	- 6.8
1949-50	4.07	4.32	-.25	- 6.1
1950-51	5.17	5.33	-.16	- 3.2
1951-52	5.53	5.49	.04	0.8
1952-53	5.32	5.13	.19	3.5
1953-54	5.12	5.12	0	- 0.1
1954-55	5.17	5.25	-.08	- 1.6
1955-56	5.70	5.23	.47	8.2
1956-57	5.35	5.21	.14	2.5
1957-58	5.10	4.93	.17	3.4
1958-59 ^{a/}	5.36	5.68	-.32	- 6.0

^{a/} Preliminary; subject to revision.

Sources:

Col. 1: Table 1, column 1.

Col. 2: Estimated by use of data in Table 4 applied to equation (2)
on page 14.

TABLE 2
 UNITED STATES DEPARTMENT OF AGRICULTURE
 BUREAU OF ECONOMIC ANALYSIS
 UNITED STATES OF AMERICA

Year	Production (1000 bushels)	Average yield per acre		Irrigated land (1000 acres)
		Total	With irrigation	
1954	100.0	100.0	100.0	100.0
1955	100.0	100.0	100.0	100.0
1956	100.0	100.0	100.0	100.0
1957	100.0	100.0	100.0	100.0
1958	100.0	100.0	100.0	100.0
1959	100.0	100.0	100.0	100.0
1960	100.0	100.0	100.0	100.0
1961	100.0	100.0	100.0	100.0
1962	100.0	100.0	100.0	100.0
1963	100.0	100.0	100.0	100.0
1964	100.0	100.0	100.0	100.0
1965	100.0	100.0	100.0	100.0
1966	100.0	100.0	100.0	100.0
1967	100.0	100.0	100.0	100.0
1968	100.0	100.0	100.0	100.0
1969	100.0	100.0	100.0	100.0
1970	100.0	100.0	100.0	100.0
1971	100.0	100.0	100.0	100.0
1972	100.0	100.0	100.0	100.0
1973	100.0	100.0	100.0	100.0
1974	100.0	100.0	100.0	100.0
1975	100.0	100.0	100.0	100.0
1976	100.0	100.0	100.0	100.0
1977	100.0	100.0	100.0	100.0
1978	100.0	100.0	100.0	100.0
1979	100.0	100.0	100.0	100.0
1980	100.0	100.0	100.0	100.0
1981	100.0	100.0	100.0	100.0
1982	100.0	100.0	100.0	100.0
1983	100.0	100.0	100.0	100.0
1984	100.0	100.0	100.0	100.0
1985	100.0	100.0	100.0	100.0
1986	100.0	100.0	100.0	100.0
1987	100.0	100.0	100.0	100.0
1988	100.0	100.0	100.0	100.0
1989	100.0	100.0	100.0	100.0
1990	100.0	100.0	100.0	100.0
1991	100.0	100.0	100.0	100.0
1992	100.0	100.0	100.0	100.0
1993	100.0	100.0	100.0	100.0
1994	100.0	100.0	100.0	100.0
1995	100.0	100.0	100.0	100.0
1996	100.0	100.0	100.0	100.0
1997	100.0	100.0	100.0	100.0
1998	100.0	100.0	100.0	100.0
1999	100.0	100.0	100.0	100.0
2000	100.0	100.0	100.0	100.0
2001	100.0	100.0	100.0	100.0
2002	100.0	100.0	100.0	100.0
2003	100.0	100.0	100.0	100.0
2004	100.0	100.0	100.0	100.0
2005	100.0	100.0	100.0	100.0
2006	100.0	100.0	100.0	100.0
2007	100.0	100.0	100.0	100.0
2008	100.0	100.0	100.0	100.0
2009	100.0	100.0	100.0	100.0
2010	100.0	100.0	100.0	100.0
2011	100.0	100.0	100.0	100.0
2012	100.0	100.0	100.0	100.0
2013	100.0	100.0	100.0	100.0
2014	100.0	100.0	100.0	100.0
2015	100.0	100.0	100.0	100.0
2016	100.0	100.0	100.0	100.0
2017	100.0	100.0	100.0	100.0
2018	100.0	100.0	100.0	100.0
2019	100.0	100.0	100.0	100.0
2020	100.0	100.0	100.0	100.0

Source: Bureau of Economic Analysis, United States Department of Agriculture. Data for 1954-1999 are based on the 1999 Survey of Agricultural Production. Data for 2000-2020 are preliminary estimates. Irrigated land data are from the National Water Research Institute. All figures are in thousands of bushels, except for irrigated land which is in thousands of acres.

Construction of Adjusted Index of Prices of Canned Fruits
Competing with Canned Cling Peaches from 1924-25

Marketing year, June through May	Weighted average prices of competing canned fruits		United States disposable personal income		Adjusted index of competing canned fruit prices
	1 dollars per case	2 index, 1947-48 to 1949-50 = 100	3 billions of dollars	4 index, 1947-48 to 1949-50 = 100	
1924-25	5.1890	81.31	70.9	37.5	216.8
1925-26	4.5410	71.16	76.2	40.4	176.1
1926-27	4.6715	73.20	76.8	40.7	179.9
1927-28	4.4001	68.95	76.9	40.7	169.4
1928-29	4.4104	69.11	81.8	43.3	159.6
1929-30	4.8014	75.24	80.6	42.7	176.2
1930-31	3.9810	62.38	69.5	36.8	169.5
1931-32	3.0591	47.94	56.0	29.6	162.0
1932-33	2.9781	46.67	44.5	23.6	197.8
1933-34	3.3421	52.37	49.6	26.3	199.1
1934-35	3.6171	56.68	54.3	28.8	196.8
1935-36	3.4743	54.44	62.1	32.9	165.5
1936-37	3.4830	54.58	69.8	37.0	147.5
1937-38	3.6720	57.54	68.0	36.0	159.8
1938-39	3.2559	51.02	67.6	35.8	142.5
1939-40	3.5969	56.36	72.8	38.5	146.4
1940-41	3.5229	55.20	82.8	43.8	126.0
(War years)					
1947-48	6.5423	102.52	179.1	94.8	108.1
1948-49	6.7548	105.85	192.4	101.9	103.9
1949-50	5.8473	91.63	195.1	103.3	88.7
1950-51	6.8473	107.30	218.5	115.7	92.7
1951-52	6.9080	108.25	232.8	123.2	87.9
1952-53	6.5747	103.03	247.4	131.0	78.6
1953-54	6.6056	103.51	254.2	134.6	76.9
1954-55	6.6595	104.36	263.4	139.5	74.8
1955-56	6.7190	105.29	283.2	149.9	70.2
1956-57	6.6823	104.71	298.8	158.2	66.2
1957-58	6.5570	102.75	307.7	162.9	63.1
1958-59 ^a	7.0376	110.28	319.7	169.3	65.1

a/ Preliminary; subject to revision.

Sources:

- Col. 1: F.o.b. prices (other than clings) in Table 1 weighted by corresponding domestic commercial shipments in Table 2.
- Col. 2: Figures in column 1 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 3: Based on income data in U. S. Department of Commerce, Survey of Current Business (second quarter, 1959, estimated).
- Col. 4: Figures in column 3 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 5: Column 2 as per cent of column 4.

Year	Adjusted average price of competing foreign firms	United States domestic firms	Adjusted price of competing foreign firms
1971-72	2.180	2.180	2.180
1972-73	2.180	2.180	2.180
1973-74	2.180	2.180	2.180
1974-75	2.180	2.180	2.180
1975-76	2.180	2.180	2.180
1976-77	2.180	2.180	2.180
1977-78	2.180	2.180	2.180
1978-79	2.180	2.180	2.180
1979-80	2.180	2.180	2.180
1980-81	2.180	2.180	2.180
1981-82	2.180	2.180	2.180
1982-83	2.180	2.180	2.180
1983-84	2.180	2.180	2.180
1984-85	2.180	2.180	2.180
1985-86	2.180	2.180	2.180
1986-87	2.180	2.180	2.180
1987-88	2.180	2.180	2.180
1988-89	2.180	2.180	2.180
1989-90	2.180	2.180	2.180
1990-91	2.180	2.180	2.180
1991-92	2.180	2.180	2.180
1992-93	2.180	2.180	2.180
1993-94	2.180	2.180	2.180
1994-95	2.180	2.180	2.180
1995-96	2.180	2.180	2.180
1996-97	2.180	2.180	2.180
1997-98	2.180	2.180	2.180
1998-99	2.180	2.180	2.180
1999-00	2.180	2.180	2.180
2000-01	2.180	2.180	2.180
2001-02	2.180	2.180	2.180
2002-03	2.180	2.180	2.180
2003-04	2.180	2.180	2.180
2004-05	2.180	2.180	2.180
2005-06	2.180	2.180	2.180
2006-07	2.180	2.180	2.180
2007-08	2.180	2.180	2.180
2008-09	2.180	2.180	2.180
2009-10	2.180	2.180	2.180
2010-11	2.180	2.180	2.180
2011-12	2.180	2.180	2.180
2012-13	2.180	2.180	2.180
2013-14	2.180	2.180	2.180
2014-15	2.180	2.180	2.180
2015-16	2.180	2.180	2.180
2016-17	2.180	2.180	2.180
2017-18	2.180	2.180	2.180
2018-19	2.180	2.180	2.180
2019-20	2.180	2.180	2.180
2020-21	2.180	2.180	2.180
2021-22	2.180	2.180	2.180
2022-23	2.180	2.180	2.180
2023-24	2.180	2.180	2.180
2024-25	2.180	2.180	2.180
2025-26	2.180	2.180	2.180
2026-27	2.180	2.180	2.180
2027-28	2.180	2.180	2.180
2028-29	2.180	2.180	2.180
2029-30	2.180	2.180	2.180
2030-31	2.180	2.180	2.180
2031-32	2.180	2.180	2.180
2032-33	2.180	2.180	2.180
2033-34	2.180	2.180	2.180
2034-35	2.180	2.180	2.180
2035-36	2.180	2.180	2.180
2036-37	2.180	2.180	2.180
2037-38	2.180	2.180	2.180
2038-39	2.180	2.180	2.180
2039-40	2.180	2.180	2.180
2040-41	2.180	2.180	2.180
2041-42	2.180	2.180	2.180
2042-43	2.180	2.180	2.180
2043-44	2.180	2.180	2.180
2044-45	2.180	2.180	2.180
2045-46	2.180	2.180	2.180
2046-47	2.180	2.180	2.180
2047-48	2.180	2.180	2.180
2048-49	2.180	2.180	2.180
2049-50	2.180	2.180	2.180
2050-51	2.180	2.180	2.180
2051-52	2.180	2.180	2.180
2052-53	2.180	2.180	2.180
2053-54	2.180	2.180	2.180
2054-55	2.180	2.180	2.180
2055-56	2.180	2.180	2.180
2056-57	2.180	2.180	2.180
2057-58	2.180	2.180	2.180
2058-59	2.180	2.180	2.180
2059-60	2.180	2.180	2.180
2060-61	2.180	2.180	2.180
2061-62	2.180	2.180	2.180
2062-63	2.180	2.180	2.180
2063-64	2.180	2.180	2.180
2064-65	2.180	2.180	2.180
2065-66	2.180	2.180	2.180
2066-67	2.180	2.180	2.180
2067-68	2.180	2.180	2.180
2068-69	2.180	2.180	2.180
2069-70	2.180	2.180	2.180
2070-71	2.180	2.180	2.180
2071-72	2.180	2.180	2.180
2072-73	2.180	2.180	2.180
2073-74	2.180	2.180	2.180
2074-75	2.180	2.180	2.180
2075-76	2.180	2.180	2.180
2076-77	2.180	2.180	2.180
2077-78	2.180	2.180	2.180
2078-79	2.180	2.180	2.180
2079-80	2.180	2.180	2.180
2080-81	2.180	2.180	2.180
2081-82	2.180	2.180	2.180
2082-83	2.180	2.180	2.180
2083-84	2.180	2.180	2.180
2084-85	2.180	2.180	2.180
2085-86	2.180	2.180	2.180
2086-87	2.180	2.180	2.180
2087-88	2.180	2.180	2.180
2088-89	2.180	2.180	2.180
2089-90	2.180	2.180	2.180
2090-91	2.180	2.180	2.180
2091-92	2.180	2.180	2.180
2092-93	2.180	2.180	2.180
2093-94	2.180	2.180	2.180
2094-95	2.180	2.180	2.180
2095-96	2.180	2.180	2.180
2096-97	2.180	2.180	2.180
2097-98	2.180	2.180	2.180
2098-99	2.180	2.180	2.180
2099-00	2.180	2.180	2.180
2100-01	2.180	2.180	2.180

2. Preliminary, subject to revision.

3.0.0. (Other than oil) in Table 3 retained by respondents for statistical purposes in Table 3.

Adjusted in column 1 expressed in percent with 1971-72 as 100.

Based on Bureau data in U.S. Department of Commerce, Survey of Current Business.

Not in column 1 expressed in percent with 1971-72 as 100.

Note for Canned Cling Peaches

With price as the dependent variable and the three other variables below considered as the independent variables, multiple-linear regression equations fitted by the method of least squares to the series covering the years 1924-25 through 1958-59 (excluding 1941-42 through 1946-47) are:

$$(1) X_1^i = -13.331166 - 0.138447(X_2) + 8.782273(\log_{10} X_3) + 0.023762(X_4); \bar{R} = 0.98$$

(3.565580) (17.693420) (6.815349)

$$(2) \log_{10} X_1^i = -3.544976 - 0.311755(\log_{10} X_2) + 1.179907(\log_{10} X_3)$$

(4.115572) (18.506494)

$$+ 1.116996(\log_{10} X_4); \bar{R} = 0.98$$

(9.294026)

X_1 is the annual average f.o.b. price (choice, No. 2 $\frac{1}{2}$) of California canned cling peaches (dollars per case), Table 4, column 1.

X_2 is the canners' commercial domestic movement of California canned cling peaches (in units of 1,000,000 cases), Table 4, column 2.

X_3 is the index of United States disposable personal income (1947-48 to 1949-50 = 100), Table 4, column 3.

X_4 is the adjusted index of prices of competing canned fruits (1947-48 to 1949-50 = 100), Table 4, column 4.

The figures in parentheses are t-ratios of the net regression coefficients, and \bar{R} is the adjusted coefficient of multiple correlation.

Regression Analysis

This paper is a study of the relationship between the variables X and Y . The data is presented in the following table. The regression line is fitted to the data and the regression equation is given below.

$$Y = a + bX$$

$$a = \frac{\sum Y - b \sum X}{n}$$

$$b = \frac{\sum XY - \frac{\sum X \sum Y}{n}}{\sum X^2 - \frac{(\sum X)^2}{n}}$$

The regression line is fitted to the data and the regression equation is given below.

$$Y = a + bX$$

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$$Y = a + bX$$

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$$Y = a + bX$$

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$$Y = a + bX$$

TABLE 7

Pacific Coast Canned Pears, Canners' Pack, Carry-Over,
Shipments, and Exports from 1924-25

Marketing year, June through May	Canners' stocks on hand at be- ginning of year	Total supply	Canners' stocks on hand at end of year	Total f.o.b. movement from canners' hands	United States government direct f.o.b. purchases quartermaster	United States exports	F.o.b. com- mercial domestic movement
1	2	3	4	5	6	7	8
thousands of cases; 24 No. 2½ basis							
1924-25	2,119	142	2,261	51	2,210		1,014
1925-26	3,429	51	3,480	507	2,973		1,293
1926-27	3,260	507	3,767	401	3,366		1,957
1927-28	2,639	401	3,040	167	2,873		1,637
1928-29	4,116	167	4,283	292	3,991		2,170
1929-30	4,206	292	4,498	952	3,546		2,383
1930-31	4,153	952	5,105	893	4,212		2,617
1931-32	3,635	893	4,528	870	3,658		1,990
1932-33	3,117	870	3,987	429	3,558		2,200
1933-34	4,377	429	4,806	273	4,533		2,767
1934-35	5,505	273	5,778	1,291	4,487		2,984
1935-36	4,230	1,291	5,521	957	4,564		2,670
1936-37	5,355	957	6,312	850	5,462		3,997
1937-38	4,321	850	5,171	1,150	4,021		2,681
1938-39	4,090	1,150	5,240	400	4,840		3,114
1939-40	4,057	400	4,457	280	4,177		2,768
1940-41							4,150
(War years)							
1947-48	5,622	200	5,822	726	5,096		4,866
1948-49	3,831	726	4,557	761	3,796		3,660
1949-50	5,459	761	6,220	448	5,772		5,613
1950-51	6,048	448	6,496	566	5,930	900	4,815
1951-52	6,215	566	6,781	1,575	5,206	763	4,348
1952-53	6,003	1,575	7,578	1,361	6,217	386	5,700
1953-54	5,185	1,361	6,546	747	5,799	282	5,401
1954-55	7,475	747	8,222	1,545	6,677	145	6,272
1955-56	7,849	1,545	9,394	1,609	7,785	276	6,763
1956-57	8,437	1,609	10,046	2,587	7,459	382	6,789
1957-58	8,157	2,587	10,745	2,411	8,334	272	7,746
1958-59 ^{a/}	7,271	2,411	9,682	1,932	7,750	437	7,063

^{a/} Preliminary; subject to revision.

Sources: Cannery League of California, Northwest Cannery and Freezers Association, and U. S. Departments of Agriculture, Commerce, and Defense.

1941-42
 Department of Agriculture, Government of India
 Statement of Expenditure on the Department of Agriculture, Government of India

Particulars	1941-42	1940-41	1941-42		1940-41	1939-40	1938-39
			Actual	Estimated			
Salaries and allowances	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Grants-in-aid	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Capital expenditure	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Current expenditure	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Total	10,000	10,000	10,000	10,000	10,000	10,000	10,000

Government of India, Department of Agriculture, New Delhi, India
 1941-42

TABLE 8

F.O.B. Prices of Pacific Coast Canned Pears and Related
Economic Variables from 1926-27

Marketing year, June through May	F.o.b. price of Pacific Coast canned pears (choice No. 2 $\frac{1}{2}$)	F.o.b. commercial domestic movement of Pacific Coast canned pears	Index of United States disposable personal income	Adjusted index of competing canned fruit prices
	1	2	3	4
	dollars per case	thousands of cases; 24 No. 2 $\frac{1}{2}$ basis	1947-48 to 1949-50 = 100	
1926-27	4.70	1,957	40.7	189.5
1927-28	5.00	1,637	40.7	165.5
1928-29	4.50	2,170	43.3	158.0
1929-30	5.25	2,383	42.7	191.0
1930-31	3.90	2,617	36.8	173.8
1931-32	3.10	1,990	29.6	174.8
1932-33	2.75	2,200	23.6	194.0
1933-34	2.90	2,767	26.3	203.3
1934-35	3.35	2,984	28.8	202.5
1935-36	3.20	2,670	32.9	168.7
1936-37	3.20	3,997	37.0	155.4
1937-38	3.35	2,681	36.0	172.5
1938-39	3.05	3,114	35.8	144.5
1939-40	3.60	2,768	38.5	148.6
(War years)				
1948-49	8.10	3,660	101.9	104.3
1949-50	5.30	5,613	103.3	88.8
1950-51	7.80	4,815	115.7	93.3
1951-52	7.86	4,348	123.2	89.2
1952-53	6.49	5,700	131.0	82.3
1953-54	6.91	5,401	134.6	78.8
1954-55	6.92	6,272	139.5	77.1
1955-56	6.72	6,763	149.9	74.8
1956-57	6.89	6,789	158.2	68.9
1957-58	6.25	7,746	162.9	65.6
1958-59 ^{a/}	6.88	7,063	169.3	67.8

a/ Preliminary; subject to revision.

Sources:

- Col. 1: Table 1, column 3.
- Col. 2: Table 2, column 3.
- Col. 3: Table 10, column 4.
- Col. 4: Table 10, column 5.

Economic Variables from 1950-57

Year	W.O.D. price of Public Debt	W.O.D. Monetary Government	United States Industrial Production	Adjusted Index of Price
1950-51	4.70	1.00	100.0	100.0
1951-52	5.00	1.00	100.0	100.0
1952-53	5.00	1.00	100.0	100.0
1953-54	5.00	1.00	100.0	100.0
1954-55	5.00	1.00	100.0	100.0
1955-56	5.00	1.00	100.0	100.0
1956-57	5.00	1.00	100.0	100.0
1957-58	5.00	1.00	100.0	100.0
1958-59	5.00	1.00	100.0	100.0
1959-60	5.00	1.00	100.0	100.0
1960-61	5.00	1.00	100.0	100.0
1961-62	5.00	1.00	100.0	100.0
1962-63	5.00	1.00	100.0	100.0
1963-64	5.00	1.00	100.0	100.0
1964-65	5.00	1.00	100.0	100.0
1965-66	5.00	1.00	100.0	100.0
1966-67	5.00	1.00	100.0	100.0
1967-68	5.00	1.00	100.0	100.0
1968-69	5.00	1.00	100.0	100.0
1969-70	5.00	1.00	100.0	100.0
1970-71	5.00	1.00	100.0	100.0
1971-72	5.00	1.00	100.0	100.0
1972-73	5.00	1.00	100.0	100.0
1973-74	5.00	1.00	100.0	100.0
1974-75	5.00	1.00	100.0	100.0
1975-76	5.00	1.00	100.0	100.0
1976-77	5.00	1.00	100.0	100.0
1977-78	5.00	1.00	100.0	100.0
1978-79	5.00	1.00	100.0	100.0
1979-80	5.00	1.00	100.0	100.0
1980-81	5.00	1.00	100.0	100.0
1981-82	5.00	1.00	100.0	100.0
1982-83	5.00	1.00	100.0	100.0
1983-84	5.00	1.00	100.0	100.0
1984-85	5.00	1.00	100.0	100.0
1985-86	5.00	1.00	100.0	100.0
1986-87	5.00	1.00	100.0	100.0
1987-88	5.00	1.00	100.0	100.0
1988-89	5.00	1.00	100.0	100.0
1989-90	5.00	1.00	100.0	100.0
1990-91	5.00	1.00	100.0	100.0
1991-92	5.00	1.00	100.0	100.0
1992-93	5.00	1.00	100.0	100.0
1993-94	5.00	1.00	100.0	100.0
1994-95	5.00	1.00	100.0	100.0
1995-96	5.00	1.00	100.0	100.0
1996-97	5.00	1.00	100.0	100.0
1997-98	5.00	1.00	100.0	100.0
1998-99	5.00	1.00	100.0	100.0
1999-00	5.00	1.00	100.0	100.0
2000-01	5.00	1.00	100.0	100.0
2001-02	5.00	1.00	100.0	100.0
2002-03	5.00	1.00	100.0	100.0
2003-04	5.00	1.00	100.0	100.0
2004-05	5.00	1.00	100.0	100.0
2005-06	5.00	1.00	100.0	100.0
2006-07	5.00	1.00	100.0	100.0
2007-08	5.00	1.00	100.0	100.0
2008-09	5.00	1.00	100.0	100.0
2009-10	5.00	1.00	100.0	100.0
2010-11	5.00	1.00	100.0	100.0
2011-12	5.00	1.00	100.0	100.0
2012-13	5.00	1.00	100.0	100.0
2013-14	5.00	1.00	100.0	100.0
2014-15	5.00	1.00	100.0	100.0
2015-16	5.00	1.00	100.0	100.0
2016-17	5.00	1.00	100.0	100.0
2017-18	5.00	1.00	100.0	100.0
2018-19	5.00	1.00	100.0	100.0
2019-20	5.00	1.00	100.0	100.0
2020-21	5.00	1.00	100.0	100.0
2021-22	5.00	1.00	100.0	100.0
2022-23	5.00	1.00	100.0	100.0
2023-24	5.00	1.00	100.0	100.0
2024-25	5.00	1.00	100.0	100.0
2025-26	5.00	1.00	100.0	100.0
2026-27	5.00	1.00	100.0	100.0
2027-28	5.00	1.00	100.0	100.0
2028-29	5.00	1.00	100.0	100.0
2029-30	5.00	1.00	100.0	100.0
2030-31	5.00	1.00	100.0	100.0
2031-32	5.00	1.00	100.0	100.0
2032-33	5.00	1.00	100.0	100.0
2033-34	5.00	1.00	100.0	100.0
2034-35	5.00	1.00	100.0	100.0
2035-36	5.00	1.00	100.0	100.0
2036-37	5.00	1.00	100.0	100.0
2037-38	5.00	1.00	100.0	100.0
2038-39	5.00	1.00	100.0	100.0
2039-40	5.00	1.00	100.0	100.0
2040-41	5.00	1.00	100.0	100.0
2041-42	5.00	1.00	100.0	100.0
2042-43	5.00	1.00	100.0	100.0
2043-44	5.00	1.00	100.0	100.0
2044-45	5.00	1.00	100.0	100.0
2045-46	5.00	1.00	100.0	100.0
2046-47	5.00	1.00	100.0	100.0
2047-48	5.00	1.00	100.0	100.0
2048-49	5.00	1.00	100.0	100.0
2049-50	5.00	1.00	100.0	100.0
2050-51	5.00	1.00	100.0	100.0

Subject to revision.

Col. 1: Price of Public Debt

Col. 2: Monetary Government

Col. 3: Industrial Production

Col. 4: Adjusted Index of Price

TABLE 9

Actual and Estimated F.O.B. Prices of Pacific Coast Canned Pears
Choice, No. 2 $\frac{1}{2}$, from 1926-27

Marketing year, June through May	Pacific Coast canned pears (choice, No. 2 $\frac{1}{2}$)		Difference: column 1 minus column 2	Column 3 as per cent of column 1
	Actual f.o.b. price	Estimated f.o.b. price		
	1	2	3	4
	dollars per case		per cent	
1926-27	4.70	5.24	-.54	-11.5
1927-28	5.00	5.04	-.04	- 0.8
1928-29	4.50	4.87	-.37	- 8.2
1929-30	5.25	5.23	.02	0.4
1930-31	3.90	4.00	-.10	- 2.5
1931-32	3.10	3.32	-.22	- 7.1
1932-33	2.75	2.34	.41	14.9
1933-34	2.90	2.68	.22	7.6
1934-35	3.35	2.99	.36	10.8
1935-36	3.20	3.30	-.10	- 3.1
1936-37	3.20	2.78	.42	13.1
1937-38	3.35	3.82	-.47	-14.0
1938-39	3.05	3.02	.03	1.0
1939-40	3.60	3.70	-.10	- 2.8
(War years)				
1948-49	8.10	7.35	.75	9.3
1949-50	5.30	5.83	-.53	-10.0
1950-51	7.80	7.03	.77	9.9
1951-52	7.86	7.60	.26	3.3
1952-53	6.49	6.89	-.40	- 6.2
1953-54	6.91	7.17	-.26	- 3.8
1954-55	6.92	6.74	.18	2.6
1955-56	6.72	6.74	-.02	- 0.3
1956-57	6.89	6.89	0	0
1957-58	6.25	6.34	-.09	- 1.4
1958-59 ^{a/}	6.88	7.04	-.16	- 2.3

^{a/} Preliminary; subject to revision.

Sources:

Col. 1: Table 8, column 1.

Col. 2: Estimated by use of data in Table 8 applied to equation (1)
on page 19.

TABLE 2

Annual and Estimated F. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

Year	Estimated	Actual	Difference	Column 1	Column 2
1951	1.00	1.00	0.00	1.00	1.00
1952	1.00	1.00	0.00	1.00	1.00
1953	1.00	1.00	0.00	1.00	1.00
1954	1.00	1.00	0.00	1.00	1.00
1955	1.00	1.00	0.00	1.00	1.00
1956	1.00	1.00	0.00	1.00	1.00
1957	1.00	1.00	0.00	1.00	1.00
1958	1.00	1.00	0.00	1.00	1.00
1959	1.00	1.00	0.00	1.00	1.00
1960	1.00	1.00	0.00	1.00	1.00
1961	1.00	1.00	0.00	1.00	1.00
1962	1.00	1.00	0.00	1.00	1.00
1963	1.00	1.00	0.00	1.00	1.00
1964	1.00	1.00	0.00	1.00	1.00
1965	1.00	1.00	0.00	1.00	1.00
1966	1.00	1.00	0.00	1.00	1.00
1967	1.00	1.00	0.00	1.00	1.00
1968	1.00	1.00	0.00	1.00	1.00
1969	1.00	1.00	0.00	1.00	1.00
1970	1.00	1.00	0.00	1.00	1.00
1971	1.00	1.00	0.00	1.00	1.00
1972	1.00	1.00	0.00	1.00	1.00
1973	1.00	1.00	0.00	1.00	1.00
1974	1.00	1.00	0.00	1.00	1.00
1975	1.00	1.00	0.00	1.00	1.00
1976	1.00	1.00	0.00	1.00	1.00
1977	1.00	1.00	0.00	1.00	1.00
1978	1.00	1.00	0.00	1.00	1.00
1979	1.00	1.00	0.00	1.00	1.00
1980	1.00	1.00	0.00	1.00	1.00
1981	1.00	1.00	0.00	1.00	1.00
1982	1.00	1.00	0.00	1.00	1.00
1983	1.00	1.00	0.00	1.00	1.00
1984	1.00	1.00	0.00	1.00	1.00
1985	1.00	1.00	0.00	1.00	1.00
1986	1.00	1.00	0.00	1.00	1.00
1987	1.00	1.00	0.00	1.00	1.00
1988	1.00	1.00	0.00	1.00	1.00
1989	1.00	1.00	0.00	1.00	1.00
1990	1.00	1.00	0.00	1.00	1.00
1991	1.00	1.00	0.00	1.00	1.00
1992	1.00	1.00	0.00	1.00	1.00
1993	1.00	1.00	0.00	1.00	1.00
1994	1.00	1.00	0.00	1.00	1.00
1995	1.00	1.00	0.00	1.00	1.00
1996	1.00	1.00	0.00	1.00	1.00
1997	1.00	1.00	0.00	1.00	1.00
1998	1.00	1.00	0.00	1.00	1.00
1999	1.00	1.00	0.00	1.00	1.00
2000	1.00	1.00	0.00	1.00	1.00
2001	1.00	1.00	0.00	1.00	1.00
2002	1.00	1.00	0.00	1.00	1.00
2003	1.00	1.00	0.00	1.00	1.00
2004	1.00	1.00	0.00	1.00	1.00
2005	1.00	1.00	0.00	1.00	1.00
2006	1.00	1.00	0.00	1.00	1.00
2007	1.00	1.00	0.00	1.00	1.00
2008	1.00	1.00	0.00	1.00	1.00
2009	1.00	1.00	0.00	1.00	1.00
2010	1.00	1.00	0.00	1.00	1.00
2011	1.00	1.00	0.00	1.00	1.00
2012	1.00	1.00	0.00	1.00	1.00
2013	1.00	1.00	0.00	1.00	1.00
2014	1.00	1.00	0.00	1.00	1.00
2015	1.00	1.00	0.00	1.00	1.00
2016	1.00	1.00	0.00	1.00	1.00
2017	1.00	1.00	0.00	1.00	1.00
2018	1.00	1.00	0.00	1.00	1.00
2019	1.00	1.00	0.00	1.00	1.00
2020	1.00	1.00	0.00	1.00	1.00

Estimated by use of data in Table 8 and subject to revision.

Source:

Estimated by use of data in Table 8 and subject to revision.

Construction of Adjusted Index of Prices of Canned Fruits
Competing with Pacific Coast Canned Pears from 1924-25

Marketing years, June through May	Weighted average prices of competing canned fruits		United States disposable personal income		Adjusted index of competing canned fruit prices
	1	2	3	4	
	dollars per case	index, 1947-48 to 1949-50 = 100	billions of dollars	index, 1947-48 to 1949-50 = 100	
					5
					1947-48 to 1949-50 = 100
1924-25	4.9322	86.73	70.9	37.5	231.3
1925-26	4.2775	75.22	76.2	40.4	186.2
1926-27	4.3850	77.13	76.8	40.7	189.5
1927-28	3.8284	67.34	76.9	40.7	165.5
1928-29	3.8886	68.40	81.8	43.3	158.0
1929-30	4.6358	81.54	80.6	42.7	191.0
1930-31	3.6370	63.97	69.5	36.8	173.8
1931-32	2.9416	51.74	56.0	29.6	174.8
1932-33	2.6025	45.78	44.5	23.6	194.0
1933-34	3.0405	53.48	49.6	26.3	203.3
1934-35	3.3163	58.33	54.3	28.8	202.5
1935-36	3.1549	55.49	62.1	32.9	168.7
1936-37	3.2677	57.48	69.8	37.0	155.4
1937-38	3.5303	62.10	68.0	36.0	172.5
1938-39	2.9414	51.74	67.6	35.8	144.5
1939-40	3.2517	57.20	72.8	38.5	148.6
1940-41	3.1326	55.08	82.8	43.8	125.6
(War years)					
1947-48	5.8005	102.00	179.1	94.8	107.6
1948-49	6.0461	106.31	192.4	101.9	104.3
1949-50	5.2143	91.69	195.1	103.3	88.8
1950-51	6.1403	107.97	218.5	115.7	93.3
1951-52	6.2496	109.89	232.8	123.2	89.2
1952-53	6.1336	107.85	247.4	131.0	82.3
1953-54	6.0297	106.03	254.2	134.6	78.8
1954-55	6.1195	107.61	263.4	139.5	77.1
1955-56	6.3765	112.12	283.2	149.9	74.8
1956-57	6.2012	109.04	298.8	158.2	68.9
1957-58	6.0798	106.91	307.7	162.9	65.6
1958-59 ^{a/}	6.5260	114.75	319.7	169.3	67.8

a/ Preliminary; subject to revision.

Sources:

- Col. 1: F.o.b. prices (other than pears) in Table 1 weighted by corresponding shipments in Table 2.
- Col. 2: Figures in column 1 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 3: Based on income data in U. S. Department of Commerce Survey of Current Business (second quarter, 1959, estimated).
- Col. 4: Figures in column 3 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 5: Column 2 as per cent of column 4.

Note for Canned Pears

With price as the dependent variable and the three other variables below considered as the independent variables, multiple-linear regression equations fitted by the method of least squares to the series covering the years 1926-27 through 1958-59 (excluding 1940-41 through 1947-48) are:

$$(1) X_1' = -15.883292 - \frac{0.000675(X_2)}{(6.709129)^2} + \frac{11.894837(\log_{10} X_3)}{(11.374213)} + \frac{0.017425(X_4)}{(2.639719)}; \bar{R} = 0.98$$

$$(2) \log_{10} X_1' = -1.526024 - \frac{0.330508(\log_{10} X_2)}{(3.636164)} + \frac{1.065670(\log_{10} X_3)}{(12.551234)} \\ + \frac{0.702725(\log_{10} X_4)}{(3.650119)}; \bar{R} = 0.98$$

X_1 is the annual average f.o.b. price (choice, No. 2½) of Pacific Coast canned pears (dollars per case), Table 8, column 1.

X_2 is the carriers' commercial domestic movement of Pacific Coast canned pears (in units of 1,000 cases), Table 8, column 2.

X_3 is the index of United States disposable personal income (1947-48 to 1949-50 = 100), Table 8, column 3.

X_4 is the adjusted index of prices of competing canned fruits (1947-48 to 1949-50 = 100), Table 8, column 4.

The figures in parentheses are t-ratios of the net regression coefficients, and \bar{R} is the adjusted coefficient of multiple correlation.

Table 1

Table 1 shows the results of the regression analysis for the three different models.

The results of the regression analysis for the three different models are shown in Table 1.

$$Y = a + bX + cZ + dW + eV + fU + gT + hS + iR + jQ + kP + lO + mN + nM + oL + pK + qJ + rI + sH + tG + uF + vE + wD + xC + yB + zA \quad (1)$$

$$Y = a + bX + cZ + dW + eV + fU + gT + hS + iR + jQ + kP + lO + mN + nM + oL + pK + qJ + rI + sH + tG + uF + vE + wD + xC + yB + zA \quad (2)$$

The results of the regression analysis for the three different models are shown in Table 1.

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The results of the regression analysis for the three different models are shown in Table 1.

TABLE 11

California Canned Apricots, Cannery Pack, Carry-Over, Shipments, and Exports from 1924-25

Marketing year, June through May	Pack	Cannery stocks on hand at beginning of year	Total supply	Cannery stocks on hand at end of year	Total f.o.b. movement from cannery hands	United States government direct f.o.b. purchases, quarter-master	United States exports	F.o.b. commercial domestic movement
	1	2	3	4	5	6	7	8
thousands of cases; 24 No. 2½ basis								
1924-25	1,968	298	2,266	315	1,951		716	1,235
1925-26	2,094	315	2,409	21	2,388		633	1,755
1926-27	3,227	21	3,248	401	2,847		809	2,038
1927-28	2,960	401	3,361	952	2,409		630	1,779
1928-29	1,991	952	2,943	154	2,789		594	2,195
1929-30	4,023	154	4,177	1,189	2,988		729	2,259
1930-31	1,954	1,189	3,143	546	2,597		414	2,183
1931-32	2,006	546	2,552	515	2,037		496	1,541
1932-33	1,805	515	2,320	323	1,997		476	1,521
1933-34	2,416	323	2,739	167	2,572		538	2,034
1934-35	1,774	167	1,941	227	1,714		237	1,477
1935-36	3,164	227	3,391	844	2,547		596	1,951
1936-37	2,899	844	3,743	228	3,515		523	2,992
1937-38	5,553	228	5,781	2,305	3,476		575	2,901
1938-39	1,547	2,305	3,852	528	3,324		762	2,562
1939-40	3,338	528	3,866	479	3,387		747	2,640
1940-41	1,815	479	2,294	269	2,025		13	2,012

(Continued on next page.)

<p>1. 1940</p>	<p>2. 1941</p>	<p>3. 1942</p>	<p>4. 1943</p>	<p>5. 1944</p>	<p>6. 1945</p>	<p>7. 1946</p>	<p>8. 1947</p>	<p>9. 1948</p>
<p>10. 1949</p>	<p>11. 1950</p>	<p>12. 1951</p>	<p>13. 1952</p>	<p>14. 1953</p>	<p>15. 1954</p>	<p>16. 1955</p>	<p>17. 1956</p>	<p>18. 1957</p>

THESE DATA WERE OBTAINED FROM THE NATIONAL BUREAU OF ECONOMIC RESEARCH

Table 11 continued.

Marketing year, June through May	Pack	Canners' stocks on hand at beginning of year	Total supply	Canners' stocks on hand at end of year	Total f.o.b. movement from canners' hands	United States government direct f.o.b. purchases, quarter-master	United States exports	F.o.b. commercial domestic movement
	1	2	3	4	5	6	7	8
	thousands of cases; 24 No. 2½ basis							
(War years)								
1947-48	3,063	279	3,342	639	2,703		288	2,415
1948-49	4,651	639	5,290	1,508	3,782		254	3,528
1949-50	2,307	1,508	3,815	532	3,283		211	3,072
1950-51	3,661	532	4,193	115	4,078	376	136	3,566
1951-52	4,538	115	4,653	614	4,039	496	133	3,410
1952-53	3,905	614	4,519	646	3,873	613	112	3,148
1953-54	4,718	646	5,364	1,021	4,343	245	164	3,934
1954-55	2,678	1,021	3,699	222	3,477	54	246	3,177
1955-56	5,781	222	6,003	1,176	4,827	118	215	4,494
1956-57	4,118	1,177	5,295	993	4,302	118	302	3,852
1957-58	4,004	993	4,998	604	4,394	179	344	3,871
1958-59 ^{a/}	1,718	604	2,322	117	2,205	135	125	1,945

^{a/} Preliminary; subject to revision.

Sources: Canners League of California and U. S. Departments of Agriculture, Commerce, and Defense.

TABLE 1. Summary of the results of the analysis of variance for the dependent variables.

TABLE 1. Summary of the results of the analysis of variance for the dependent variables.

Source of Variation	df	F	Significance
Between Subjects	1	10.5	0.01
Within Subjects	1	10.5	0.01
Between Groups	1	10.5	0.01
Within Groups	1	10.5	0.01
Between Sessions	1	10.5	0.01
Within Sessions	1	10.5	0.01
Between Trials	1	10.5	0.01
Within Trials	1	10.5	0.01
Between Days	1	10.5	0.01
Within Days	1	10.5	0.01
Between Weeks	1	10.5	0.01
Within Weeks	1	10.5	0.01
Between Months	1	10.5	0.01
Within Months	1	10.5	0.01
Between Years	1	10.5	0.01
Within Years	1	10.5	0.01

TABLE 1. Summary of the results of the analysis of variance for the dependent variables.

F.O.B. Prices of Canned Apricots and Related
Economic Variables from 1924-25

Marketing year, June through May	F.o.b. prices of canned California apricots (choice, No. 2 $\frac{1}{2}$)	F.o.b. commercial domestic movement of California canned apricots	Index of United States disposable personal income	Index of com- peting canned fruit prices
	1	2	3	4
	dollars per case	thousands of cases; 24 No. 2 $\frac{1}{2}$ basis	1947-48 to 1949-50 = 100	
1924-25	4.60	1,235	37.5	230.9
1925-26	4.40	1,755	40.4	186.6
1926-27	4.55	2,038	40.7	185.2
1927-28	4.65	1,779	40.7	162.1
1928-29	4.35	2,195	43.3	154.5
1929-30	4.65	2,259	42.7	189.3
1930-31	4.00	2,183	36.8	169.0
1931-32	3.25	1,541	29.6	169.5
1932-33	2.75	1,521	23.6	189.3
1933-34	3.00	2,034	26.3	196.8
1934-35	4.15	1,477	28.8	193.4
1935-36	3.25	1,951	32.9	164.0
1936-37	3.10	2,992	37.0	151.6
1937-38	3.30	2,901	36.0	168.4
1938-39	2.75	2,562	35.8	142.3
1939-40	3.40	2,640	38.5	145.6
1940-41	3.80	2,012	43.8	121.7
(War years)				
1947-48	6.00	2,415	94.8	107.5
1948-49	5.25	3,528	101.9	106.4
1949-50	5.00	3,072	103.3	86.9
1950-51	5.75	3,566	115.7	94.2
1951-52	5.94	3,410	123.2	90.0
1952-53	5.68	3,148	131.0	81.2
1953-54	5.25	3,934	134.6	79.0
1954-55	5.66	3,177	139.5	76.9
1955-56	5.10	4,494	149.9	74.8
1956-57	5.60	3,852	158.2	68.7
1957-58	5.48	3,871	162.9	64.7
1958-59 ^{a/}	6.75	1,945	169.3	66.5

a/ Preliminary; subject to revision.

Sources:

Col. 1: Table 1, column 2.

Col. 2: Table 2, column 2.

Col. 3: Table 14, column 4.

Col. 4: Table 14, column 5.

TABLE 13

Actual and Estimated F.O.B. Prices of California Canned Apricots
Choice, No. 2 $\frac{1}{2}$, from 1924-25

Marketing year, June through May	California canned apricots (choice, No. 2 $\frac{1}{2}$)		Difference: column 1 minus column 2	Column 3 as per cent of column 1
	Actual f.o.b. price	Estimated f.o.b. price		
	1	2	3	4
	dollars per case			per cent
1924-25	4.60	5.14	-.54	-11.7
1925-26	4.40	4.49	-.09	- 2.0
1926-27	4.55	4.34	.21	4.6
1927-28	4.65	4.18	.47	10.3
1928-29	4.35	4.03	.32	7.4
1929-30	4.65	4.41	.24	5.2
1930-31	4.00	3.75	.25	6.2
1931-32	3.25	3.48	-.23	- 7.1
1932-33	2.75	3.10	-.35	-12.7
1933-34	3.00	3.23	-.23	- 7.7
1934-35	4.15	3.75	.40	9.6
1935-36	3.25	3.49	-.24	- 7.4
1936-37	3.10	3.10	0	0
1937-38	3.30	3.29	.01	0.3
1938-39	2.75	3.11	-.36	-13.1
1939-40	3.40	3.33	.07	2.1
1940-41	3.80	3.72	.08	2.1
(War years)				
1947-48	6.00	5.55	.45	7.5
1948-49	5.25	5.14	.11	2.1
1949-50	5.00	5.17	-.17	-3.4
1950-51	5.75	5.33	.42	7.3
1951-52	5.94	5.54	.40	6.7
1952-53	5.68	5.74	-.06	-1.1
1953-54	5.25	5.36	-.11	-2.1
1954-55	5.66	5.85	-.19	-3.4
1955-56	5.10	5.32	-.22	-4.3
1956-57	5.60	5.74	-.14	-2.5
1957-58	5.48	5.76	-.28	-5.1
1958-59 ^{a/}	6.75	6.95	-.20	-3.0

a/ Preliminary; subject to revision.

Sources:

Col. 1: Table 1, column 1.

Col. 2: Estimated by use of data in Table 12 applied to equation (1)
on page 25.

TABLE 13

Actual and Estimated U.S. Prices of California Grapes and Raisins
1910-1914

Year	Actual	Estimated	
		1910-1911	1911-1912
1910
1911
1912
1913
1914

Source: Bureau of Agricultural Economics, U.S. Department of Agriculture.

Table 13, Column 1

U.S. Department of Agriculture, Bureau of Agricultural Economics, U.S. Department of Agriculture, Washington, D.C., 1915. Reprinted by permission of the U.S. Government Printing Office.

TABLE 14

24.

Construction of Adjusted Index of Prices of Canned Fruits
Competing with Canned Apricots from 1924-25

Marketing year, June through May	Weighted average prices of competing canned fruits		United States disposable personal income		Adjusted index of competing canned fruit prices 1947-48 to 1949-50 = 100
	1	2	3	4	
	dollars per case	index, 1947-48 to 1949-50 = 100	billions of dollars	index, 1947-48 to 1949-50 = 100	
1924-25	5.0563	86.59	70.9	37.5	230.9
1925-26	4.4027	75.40	76.2	40.4	186.6
1926-27	4.4012	75.37	76.8	40.7	185.2
1927-28	3.8516	65.96	76.9	40.7	162.1
1928-29	3.9054	66.88	81.8	43.3	154.5
1929-30	4.7198	80.83	80.6	42.7	189.3
1930-31	3.6320	62.20	69.5	36.8	169.0
1931-32	2.9304	50.18	56.0	29.6	169.5
1932-33	2.6083	44.67	44.5	23.6	189.3
1933-34	3.0231	51.77	49.6	26.3	196.8
1934-35	3.2524	55.70	54.3	28.8	193.4
1935-36	3.1516	53.97	62.1	32.9	164.0
1936-37	3.2766	56.11	69.8	37.0	151.6
1937-38	3.5391	60.61	68.0	36.0	168.4
1938-39	2.9745	50.94	67.6	35.8	142.3
1939-40	3.2735	56.06	72.8	38.5	145.6
1940-41	3.1128	53.31	82.8	43.8	121.7
(War years)					
1947-48	5.9505	101.87	179.1	94.8	107.5
1948-49	6.3312	108.39	192.4	101.9	106.4
1949-50	5.2417	89.74	195.1	103.3	86.9
1950-51	6.3657	108.98	218.5	115.7	94.2
1951-52	6.4747	110.85	232.8	123.2	90.0
1952-53	6.2154	106.41	247.4	131.0	81.2
1953-54	6.2148	106.40	254.2	134.6	79.0
1954-55	6.2636	107.23	263.4	139.5	76.9
1955-56	6.5480	112.10	283.2	149.9	74.8
1956-57	6.3486	108.69	298.8	158.2	68.7
1957-58	6.1518	105.32	307.7	162.9	64.7
1958-59 ^a	6.5712	112.50	319.7	169.3	66.5

^a/ Preliminary; subject to revision.

Sources:

- Col. 1: F.o.b. prices (other than apricots) in Table 1 weighted by corresponding shipments in Table 2.
- Col. 2: Figures in column 1 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 3: Based on income data in U. S. Department of Commerce, Survey of Current Business (second quarter, 1959, estimated).
- Col. 4: Figures in column 3 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 5: Column 2 as per cent of column 4.

Construction of Adjusted Index of Prices of Canned Fruit

Year	Weighted average price of company canned fruit	Weighted average price of company canned fruit	Weighted average price of company canned fruit	Adjusted index of company canned fruit prices
1913-14	100.00	100.00	100.00	100.00
1914-15	100.00	100.00	100.00	100.00
1915-16	100.00	100.00	100.00	100.00
1916-17	100.00	100.00	100.00	100.00
1917-18	100.00	100.00	100.00	100.00
1918-19	100.00	100.00	100.00	100.00
1919-20	100.00	100.00	100.00	100.00
1920-21	100.00	100.00	100.00	100.00
1921-22	100.00	100.00	100.00	100.00
1922-23	100.00	100.00	100.00	100.00
1923-24	100.00	100.00	100.00	100.00
1924-25	100.00	100.00	100.00	100.00
1925-26	100.00	100.00	100.00	100.00
1926-27	100.00	100.00	100.00	100.00
1927-28	100.00	100.00	100.00	100.00
1928-29	100.00	100.00	100.00	100.00
1929-30	100.00	100.00	100.00	100.00
1930-31	100.00	100.00	100.00	100.00
1931-32	100.00	100.00	100.00	100.00
1932-33	100.00	100.00	100.00	100.00
1933-34	100.00	100.00	100.00	100.00
1934-35	100.00	100.00	100.00	100.00
1935-36	100.00	100.00	100.00	100.00
1936-37	100.00	100.00	100.00	100.00
1937-38	100.00	100.00	100.00	100.00
1938-39	100.00	100.00	100.00	100.00
1939-40	100.00	100.00	100.00	100.00
1940-41	100.00	100.00	100.00	100.00
1941-42	100.00	100.00	100.00	100.00
1942-43	100.00	100.00	100.00	100.00
1943-44	100.00	100.00	100.00	100.00
1944-45	100.00	100.00	100.00	100.00
1945-46	100.00	100.00	100.00	100.00
1946-47	100.00	100.00	100.00	100.00
1947-48	100.00	100.00	100.00	100.00
1948-49	100.00	100.00	100.00	100.00
1949-50	100.00	100.00	100.00	100.00
1950-51	100.00	100.00	100.00	100.00
1951-52	100.00	100.00	100.00	100.00
1952-53	100.00	100.00	100.00	100.00
1953-54	100.00	100.00	100.00	100.00
1954-55	100.00	100.00	100.00	100.00
1955-56	100.00	100.00	100.00	100.00
1956-57	100.00	100.00	100.00	100.00
1957-58	100.00	100.00	100.00	100.00
1958-59	100.00	100.00	100.00	100.00
1959-60	100.00	100.00	100.00	100.00
1960-61	100.00	100.00	100.00	100.00
1961-62	100.00	100.00	100.00	100.00
1962-63	100.00	100.00	100.00	100.00
1963-64	100.00	100.00	100.00	100.00
1964-65	100.00	100.00	100.00	100.00
1965-66	100.00	100.00	100.00	100.00
1966-67	100.00	100.00	100.00	100.00
1967-68	100.00	100.00	100.00	100.00
1968-69	100.00	100.00	100.00	100.00
1969-70	100.00	100.00	100.00	100.00
1970-71	100.00	100.00	100.00	100.00
1971-72	100.00	100.00	100.00	100.00
1972-73	100.00	100.00	100.00	100.00
1973-74	100.00	100.00	100.00	100.00
1974-75	100.00	100.00	100.00	100.00
1975-76	100.00	100.00	100.00	100.00
1976-77	100.00	100.00	100.00	100.00
1977-78	100.00	100.00	100.00	100.00
1978-79	100.00	100.00	100.00	100.00
1979-80	100.00	100.00	100.00	100.00
1980-81	100.00	100.00	100.00	100.00
1981-82	100.00	100.00	100.00	100.00
1982-83	100.00	100.00	100.00	100.00
1983-84	100.00	100.00	100.00	100.00
1984-85	100.00	100.00	100.00	100.00
1985-86	100.00	100.00	100.00	100.00
1986-87	100.00	100.00	100.00	100.00
1987-88	100.00	100.00	100.00	100.00
1988-89	100.00	100.00	100.00	100.00
1989-90	100.00	100.00	100.00	100.00
1990-91	100.00	100.00	100.00	100.00
1991-92	100.00	100.00	100.00	100.00
1992-93	100.00	100.00	100.00	100.00
1993-94	100.00	100.00	100.00	100.00
1994-95	100.00	100.00	100.00	100.00
1995-96	100.00	100.00	100.00	100.00
1996-97	100.00	100.00	100.00	100.00
1997-98	100.00	100.00	100.00	100.00
1998-99	100.00	100.00	100.00	100.00
1999-00	100.00	100.00	100.00	100.00
2000-01	100.00	100.00	100.00	100.00
2001-02	100.00	100.00	100.00	100.00
2002-03	100.00	100.00	100.00	100.00
2003-04	100.00	100.00	100.00	100.00
2004-05	100.00	100.00	100.00	100.00
2005-06	100.00	100.00	100.00	100.00
2006-07	100.00	100.00	100.00	100.00
2007-08	100.00	100.00	100.00	100.00
2008-09	100.00	100.00	100.00	100.00
2009-10	100.00	100.00	100.00	100.00
2010-11	100.00	100.00	100.00	100.00
2011-12	100.00	100.00	100.00	100.00
2012-13	100.00	100.00	100.00	100.00
2013-14	100.00	100.00	100.00	100.00
2014-15	100.00	100.00	100.00	100.00
2015-16	100.00	100.00	100.00	100.00
2016-17	100.00	100.00	100.00	100.00
2017-18	100.00	100.00	100.00	100.00
2018-19	100.00	100.00	100.00	100.00
2019-20	100.00	100.00	100.00	100.00
2020-21	100.00	100.00	100.00	100.00
2021-22	100.00	100.00	100.00	100.00
2022-23	100.00	100.00	100.00	100.00
2023-24	100.00	100.00	100.00	100.00
2024-25	100.00	100.00	100.00	100.00

Source: Bureau of Economic Analysis, subject to revision.

- Col. 1: 100 percent of column 2.
- Col. 2: Figures in column 1 expressed as percentages with 1913-14 = 100.
- Col. 3: Based on same data in U. S. Department of Commerce, Survey of Current Prices (second quarter, 1913, estimated).
- Col. 4: Figures in column 3 expressed as percentages with 1913-14 = 100.
- Col. 5: 100 percent of column 4.

Note for Canned Apricots

With price as the dependent variable and the three other variables below considered as the independent variables, multiple-linear regression equations fitted by the method of least squares to the series covering the years 1924-25 through 1958-59 (excluding 1941-42 through 1946-47) are:

$$(1) X_1' = -7.734581 - 0.000544(X_2) + 6.665997(\log_{10} X_3) + 0.013248(X_4); \bar{R} = 0.96$$

(5.079614) (12.889541) (4.125443)

$$(2) \log_{10} X_1' = -1.348536 - 0.259857(\log_{10} X_2) + 0.809949(\log_{10} X_3)$$

(4.122542) (12.028834)

$$+ 0.680045(\log_{10} X_4); \bar{R} = 0.96$$

(5.706850)

X_1 is the annual average f.o.b. price (choice, No. 2 $\frac{1}{2}$) of California canned apricots (dollars per case), Table 12, column 1.

X_2 is the canners' commercial domestic movement of California canned apricots (in units of 1,000 cases), Table 12, column 2.

X_3 is the index of United States disposable personal income (1947-48 to 1949-50 = 100), Table 12, column 3.

X_4 is the adjusted index of prices of competing canned fruits (1947-48 to 1949-50 = 100), Table 12, column 4.

The figures in parentheses are t-ratios of the net regression coefficients, and \bar{R} is the adjusted coefficient of multiple correlation.

Table 1

This price as the dependent variable and the three other variables before control net as the independent variables, multiple-linear regression equation fitted to the combined least squares to the price control in years 1971-72 through 1991-92 (excluding 1974-75) is:

$$\begin{aligned} (2) \quad \ln P_{it} &= -1.2420 + 0.4807(\ln X_{1it}) + 0.1924(\ln X_{2it}) \\ &+ 0.1000(\ln X_{3it}) - 0.0001(\ln X_{4it}) \quad F = 0.96 \end{aligned}$$

X_1 is the annual average U.S. price (index, \ln , X_1) of California
general products (total net case), \ln , X_1 , column 1.
 X_2 is the annual average U.S. price (index, \ln , X_2) of California
products (in units of 1,000 cases), \ln , X_2 , column 2.
 X_3 is the index of United States's cash-in-hand income (1972-73
to 1991-92 = 100), \ln , X_3 , column 3.
 X_4 is the index of prices of competing capital goods (1972-73
to 1991-92 = 100), \ln , X_4 , column 4.
The figures in parentheses are t-ratios of the net regression coefficients and F is the adjusted coefficient of multiple correlation.

TABLE 15

Canned Freestone Peaches, Cannery Pack, Carry-Over, Shipments, and Exports from 1934-35

Marketing year, June through May	Pack 1	Cannery stocks on hand at beginning of year 2	Total supply 3	Cannery stocks on hand at end of year 4	Total f.o.b. movement from cannery hands 5	United States government direct f.o.b. purchases			F.o.b. commercial domestic movement 9
						School lunch program 6	Quarter-master 7	Total 8	
thousands of cases; 24 No. 2½ basis									
<u>California canned freestone peaches</u>									
1947-48	1,497	41	1,538	248	1,291				1,291
1948-49	1,708	248	1,952	265	1,690				1,690
1949-50	1,499	265	1,764	271	1,493	30		30	1,463
1950-51	1,677	271	1,948	52	1,896				1,896
1951-52	2,793	52	2,845	374	2,471		200	200	2,271
1952-53	2,670	374	3,044	465	2,579		100	100	2,479
1953-54	2,580	465	3,045	397	2,648	37	77	114	2,534
1954-55	3,113	397	3,510	340	3,170				3,170
1955-56	3,007	340	3,347	332	3,025				3,025
1956-57	4,493	322	4,815	1,076	3,739				3,739
1957-58	4,065	1,076	5,141	960	4,181	18		18	4,163
1958-59 ^b	4,489	960	5,449	869	4,580	17	311	328	4,252

(Note: See following page for Pacific Coast canned freestone peaches.)

(Continued on next page.)

Table 15 continued.

Marketing year, June through May	Pack	Canners' stocks on hand at beginning of year	Total supply	Canners' stocks on hand at end of year	Total f.o.b. movement from canners' hands	United States government direct f.o.b. purchases			F.o.b. commercial domestic movement ^{a/}
						School lunch program	Quarter-master	Total	
	1	2	3	4	5	6	7	8	9
thousands of cases; 24 No. 2½ basis									
<u>Pacific Coast canned freestone peaches^{c/}</u>									
1934-35	344	2	346	21	325				325
1935-36	373	21	394	112	282				282
1936-37	588	112	700	69	631				631
1937-38	1,198	69	1,267	435	832				832
1938-39	550	435	985	269	716				716
1939-40	1,210	269	1,479	273	1,206				1,206
1940-41	1,541	273	1,814	174	1,640				1,640
(War years)									
1947-48	2,525	71	2,596	441	2,155				2,155
1948-49	2,310	441	2,751	429	2,322				2,322
1949-50	2,236	429	2,665	457	2,208	30		30	2,178
1950-51	1,743	457	2,200	65	2,135				2,135
1951-52	3,106	65	3,171	464	2,707		200	200	2,507
1952-53	3,432	464	3,896	721	3,175		100	100	3,075
1953-54	3,150	721	3,871	601	3,270	37	77	114	3,156
1954-55	3,698	601	4,299	458	3,841				3,841
1955-56	3,989	458	4,447	588	3,859				3,859
1956-57	5,668	588	6,256	1,568	4,688				4,688
1957-58	4,374	1,568	5,942	1,171	4,771	18		18	4,753
1958-59 ^{b/}	5,619	1,171	6,790	1,230	5,560	21	389	410	5,150

(Continued on next page.)

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Table 15 continued.

a/ No exports of canned freestone peaches are reflected; exports of all canned peaches are considered as clings since no breakdown between exports of clings and frees is available.

b/ Preliminary; subject to revision.

c/ For the prewar years, the only Northwest data available are packs (in actual cases), and they are combined with California data (24 No. 2 $\frac{1}{2}$ basis) to derive estimated Pacific Coast data. For the postwar years, however, Pacific Coast reflects combined data (24 No. 2 $\frac{1}{2}$ basis) on packs and canners' stocks for California and the Northwest.

Sources: Cannery League of California, Northwest Cannery and Freezers Association, and U. S. Departments of Agriculture and Defense.

TABLE 16

F.O.B. Prices of Pacific Coast Freestone Peaches and Related
Economic Variables from 1934-35

Marketing year, June through May	F.o.b. prices of Pacific Coast canned freestone peaches (fancy, No. 2 $\frac{1}{2}$) ^{a/}	F.o.b. commercial domestic movement of Pacific Coast canned freestone peaches	Index of United States disposable personal income	Adjusted index of competing canned fruit prices
	1	2	3	4
	dollars per case	thousands of cases; 24 No. 2 $\frac{1}{2}$ basis	1947-48 to 1949-50 = 100	
1934-35	4.00	325	28.8	198.9
1935-36	3.80	282	32.9	165.8
1936-37	3.80	631	37.0	151.9
1937-38	3.80	832	36.0	168.3
1938-39	3.70	716	35.8	142.0
1939-40	3.60	1,206	38.5	147.2
1940-41	3.60	1,640	43.8	123.9
(War years)				
1947-48	6.50	2,156	94.8	108.3
1948-49	7.00	2,322	101.9	105.3
1949-50	5.90	2,178	103.3	87.1
1950-51	7.50	2,135	115.7	93.6
1951-52	7.50	2,507	123.2	89.2
1952-53	7.00	3,075	131.0	80.8
1953-54	6.70	3,156	134.6	78.3
1954-55	6.45	3,841	139.5	76.9
1955-56	6.78	3,859	149.9	73.8
1956-57	6.29	4,688	158.2	68.8
1957-58	6.10	4,753	162.9	64.8
1958-59 ^{b/}	6.16	5,150	169.3	67.7

a/ The freestone peach prices for 1954-55 through 1958-59 are for Pacific Coast; the freestone peach prices for earlier years are for California.

b/ Preliminary; subject to revision.

Sources:

- Col. 1: Table 1, column 4.
- Col. 2: Table 15, column 9.
- Col. 3: Table 18, column 4.
- Col. 4: Table 18, column 5.

TABLE 1

Table 1. Summary of the results of the analysis of variance for the different factors.

Source of variation	D.F.	Mean square	F-value	Probability > F
Replication	1	1.2	0.02	0.88
Treatment	3	15.8	0.32	0.73
Block	1	1.2	0.02	0.88
Error	12	0.4		
Total	17			

The analysis of variance was carried out using the method of Cochran (1954).

The results are given in Table 1.

- 1. The results of the analysis of variance are given in Table 1.
- 2. The results of the analysis of variance are given in Table 1.
- 3. The results of the analysis of variance are given in Table 1.
- 4. The results of the analysis of variance are given in Table 1.

TABLE 17

Actual and Estimated F.O.B. Prices of Pacific Coast Canned Freestone Peaches, Fancy, No. 2 $\frac{1}{2}$, from 1934-35

Marketing year, June through May	Pacific Coast canned freestone peaches (fancy, No. 2 $\frac{1}{2}$)		Difference: column 1 minus column 2	Column 3 as per cent of column 1
	Actual f.o.b. price	Estimated f.o.b. price		
	1	2		
	dollars per case			per cent
1934-35	4.00	3.95	.05	1.2
1935-36	3.80	3.94	-.14	- 3.7
1936-37	3.80	3.94	-.14	- 3.7
1937-38	3.80	4.00	-.20	- 5.3
1938-39	3.70	3.48	.22	6.0
1939-40	3.60	3.57	.03	0.8
1940-41	3.60	3.35	.25	6.9
(War years)				
1947-48	6.50	6.57	-.07	- 1.1
1948-49	7.00	6.74	.26	3.7
1949-50	5.90	6.52	-.62	-10.5
1950-51	7.50	7.29	.21	2.8
1951-52	7.50	7.21	.29	3.9
1952-53	7.00	6.87	.13	1.9
1953-54	6.70	6.88	-.18	- 2.7
1954-55	6.45	6.47	-.02	- 0.3
1955-56	6.78	6.75	.03	0.4
1956-57	6.29	6.23	.06	1.0
1957-58	6.10	6.24	-.14	- 2.3
1958-59 ^{a/}	6.16	6.18	-.02	- 0.3

^{a/} Preliminary; subject to revision.

Sources:

Col. 1: Table 16, column 1.

Col. 2: Estimated by use of data in Table 16 applied to equation (1) on page 32.

TABLE IV

TABLE IV. SUMMARY OF THE DATA OBTAINED FROM THE EXPERIMENTAL INVESTIGATION OF THE EFFECT OF THE CONCENTRATION OF THE SOLUTION ON THE RATE OF REACTION.

Concentration of the solution	Rate of reaction	Rate of reaction		Concentration of the solution
		Initial rate	Final rate	
0.01 M	0.001	0.001	0.001	0.01 M
0.02 M	0.002	0.002	0.002	0.02 M
0.03 M	0.003	0.003	0.003	0.03 M
0.04 M	0.004	0.004	0.004	0.04 M
0.05 M	0.005	0.005	0.005	0.05 M

The rate of reaction is directly proportional to the concentration of the solution.

Ref. 1. Table 1, column 1.

Ref. 2. Estimated by use of data in Table 1. Applied to equation (1) on page 12.

Construction of Adjusted Index of Prices of Canned Fruits
Competing with Canned Freestone Peaches from 1934-35

Marketing year, June through May	Weighted average prices of competing canned fruits		United States disposable personal income		Adjusted index of competing canned fruit prices
	1	2	3	4	
	dollars per case	index, 1947-48 to 1949-50 = 100	billions of dollars	index, 1947-48 to 1949-50 = 100	
					5 1947-48 to 1949-50 = 100
1934-35	3.3100	57.27	54.3	28.8	198.9
1935-36	3.1523	54.54	62.1	32.9	165.8
1936-37	3.2485	56.20	69.8	37.0	151.9
1937-38	3.5017	60.59	68.0	36.0	168.3
1938-39	2.9387	50.84	67.6	35.8	142.0
1939-40	3.2752	56.67	72.8	38.5	147.2
1940-41	3.1367	54.27	82.8	43.8	123.9
(War years)					
1947-48	5.9358	102.70	179.1	94.8	108.3
1948-49	6.2013	107.29	192.4	101.9	105.3
1949-50	5.2022	90.01	195.1	103.3	87.1
1950-51	6.2585	108.28	218.5	115.7	93.6
1951-52	6.3550	109.95	232.8	123.2	89.2
1952-53	6.1186	105.86	247.4	131.0	80.8
1953-54	6.0911	105.39	254.2	134.6	78.3
1954-55	6.2042	107.34	263.4	139.5	76.9
1955-56	6.3926	110.60	283.2	149.9	73.8
1956-57	6.2926	108.87	298.8	158.2	68.8
1957-58	6.1044	105.62	307.7	162.9	64.8
1958-59 ^{a/}	6.6256	114.63	319.7	169.3	67.7

a/ Preliminary; subject to revision.

Sources:

- Col. 1: F.o.b. prices (other than freestone peaches) in Table 1 weighted by corresponding shipments in Table 2.
- Col. 2: Figures in column 1 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 3: Based on income data in U. S. Department of Commerce, Survey of Current Business (second quarter, 1959, estimated).
- Col. 4: Figures in column 3 expressed as percentages with 1947-48 to 1949-50 = 100.
- Col. 5: Column 2 as per cent of column 4.

Comparison of Adjusted Values of Various Factors
 and the Values of the Factors as Reported

Factor	Adjusted Values		Values as Reported		Percentage Difference
	Value	Percentage	Value	Percentage	
Factor 1	100.0	100.0	100.0	100.0	0.0
Factor 2	100.0	100.0	100.0	100.0	0.0
Factor 3	100.0	100.0	100.0	100.0	0.0
Factor 4	100.0	100.0	100.0	100.0	0.0
Factor 5	100.0	100.0	100.0	100.0	0.0
Factor 6	100.0	100.0	100.0	100.0	0.0
Factor 7	100.0	100.0	100.0	100.0	0.0
Factor 8	100.0	100.0	100.0	100.0	0.0
Factor 9	100.0	100.0	100.0	100.0	0.0
Factor 10	100.0	100.0	100.0	100.0	0.0

Col. 1: Factor 1 (and this factor is used as the base for all other factors) in Table 1 is assigned a value of 100.0.

Col. 2: Factors in other columns are expressed as percentages with 100.0 as the base.

Col. 3: Based on factors in U. S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, 1954, p. 100.

Col. 4: Factors in other columns are expressed as percentages with 100.0 as the base.

Col. 5: Column 5 is the percentage difference between columns 2 and 4.

Note for Canned Freestone Peaches

With price as the dependent variable and the three other variables below considered as the independent variables, multiple-linear regression equations fitted by the method of least squares to the series covering the years 1934-35 through 1958-59 (excluding 1941-42 through 1946-47) are:

$$(1) X_1^i = -17.611167 - 0.000830(X_2) + 11.911692(\log_{10} X_3) + 0.022374(X_4); \bar{R} = 0.99$$

(8.714448) (14.442308) (4.068616)

$$(2) \log_{10} X_1^i = -3.046602 - 0.093559(\log_{10} X_2) + 1.057257(\log_{10} X_3)$$

(1.901369) (11.764524)

$$+ 1.024571(\log_{10} X_4); \bar{R} = 0.98$$

(5.348095)

X_1 is the annual average f.o.b. price (fancy, No. 2½) of Pacific Coast canned freestone peaches (dollars per case), Table 16, column 1.

X_2 is the canners' commercial domestic movement of Pacific Coast canned freestone peaches (in units of 1,000 cases), Table 16, column 2.

X_3 is the index of United States disposable personal income (1947-48 to 1949-50 = 100), Table 16, column 3.

X_4 is the adjusted index of prices of competing canned fruits (1947-48 to 1949-50 = 100), Table 16, column 4.

The figures in parentheses are t-ratios of the net regression coefficients, and \bar{R} is the adjusted coefficient of multiple correlation.

Note for Canned Freestone Peaches

with price as the dependent variable and the three other variables below considered as the independent variables, multiple-linear regression equations fitted by the method of least squares to the series covering the years 1917-52 through 1952-59 (excluding 1917-18 through 1919-20) are:

$$(1) X_1^1 = -17.61157 + 0.006830(X_2) + 11.91192(\log_{10} X_3) + 0.022371(X_4); \bar{R} = 0.92$$

(8.71448) (11.143308) (11.068615)

$$(2) \log_{10} X_1^1 = -3.046602 - 0.023552(\log_{10} X_2) + 1.027257(\log_{10} X_3) + 1.024571(\log_{10} X_4); \bar{R} = 0.98$$

(1.201362) (11.761221) (2.348022)

X_1^1 is the annual average f.o.b. price (fancy, No. 2½) of Pacific Coast canned freestone peaches (dollars per case), Table 16, column 1.

X_2 is the canners' commercial domestic movement of Pacific Coast canned freestone peaches (in units of 1,000 cases), Table 16, column 2.

X_3 is the index of United States disposable personal income (1917-18 to 1949-50 = 100), Table 16, column 3.

X_4 is the adjusted index of prices of competing canned fruits (1917-18 to 1949-50 = 100), Table 16, column 4.

The figures in parentheses are t-ratios of the net regression coefficients, and \bar{R} is the adjusted coefficient of multiple correlation.

TABLE 19

California Canned Fruit Cocktail, Cannery Pack, Carry-Over, Shipments, and Exports

Marketing year, June through May	Direct pack	Remanufactured pack	Cannery carry-over on hand at beginning of year	Total supply	Cannery carry-over on hand at end of year	Total f.o.b. movement from cannery hands	United States government direct f.o.b. purchases, quarter-master	United States exports	F.o.b. commercial domestic movement
	1	2	3	4	5	6	7	8	9
	thousands of cases; 24 No. 2½ basis								
1936-37	2,119	90.000	385	2,595	336	2,259		81	2,178
1937-38	3,078	228.000	336	3,642	1,295	2,347		76	2,271
1938-39	1,968	75.000	1,295	3,337	288	3,049		98	2,951
1939-40	3,580	73.000	288	3,942	747	3,195		104	3,091
1940-41	4,262	98.000	747	5,108	587	4,521		7	4,514
(War years)									
1947-48	9,324	125.000	62	9,511	299	9,212		376	8,836
1948-49	9,754	85.000	299	10,139	3,016	7,122		331	6,791
1949-50	6,135	445.000	3,016	9,596	2,014	7,492	115	400	6,977
1950-51	6,810	302.000	2,104	9,217	490	8,727	747	616	7,364
1951-52	8,999		490	9,488	2,335	7,153	949	601	5,604
1952-53	7,489	0.277	2,335	9,824	1,047	8,777	423	902	7,452
1953-54	8,056	172.000	1,047	9,274	1,287	7,987	297	745	6,945
1954-55	9,074		1,287	10,361	1,226	9,135	113	985	8,037
1955-56	9,809		1,226	11,035	1,548	9,487	246	1,096	8,145
1956-57	11,033		1,548	12,581	2,151	10,430	192	1,394	8,844
1957-58	10,638		2,151	12,789	2,222	10,567	269	1,615	8,683
1958-59 ^{a/}	10,734		2,222	12,956	2,306	10,649	238	1,350	9,061

^{a/} Preliminary; subject to revision.

Sources: Cannery League of California, Cling Peach Advisory Board, and U. S. Departments of Commerce and Defense.

